General Motors Upfitter Integration

BODY BUILDER MANUAL

FOR

2018 CHEVROLET LOW CAB FORWARD

MEDIUM DUTY

4500HD 4500XD 5500HD 5500XD

ELECTRICAL SECTION

General Motors Upfitter Integration

Note to User:
As part of our mission to provide an up-to-date website that includes detailed Body Builder Manuals, Technical Bulletins, and Best Practice Manuals, we are now using sectional excerpts directly from the General Motors Service Information publications for our Electrical Body Builder Manuals.

You will note that the section numbers are non-sequential as we have provided only those that are believed to be the most pertinent to the Upfitter community and best suited to their needs.*

This new usage of the Service Information provides the opportunity for us to remain consistent with the changes that take place throughout the model year and to provide you updated information in a more timely fashion.

**** If you would like to have access to all of the electrical Service Information, please apply for a subscription from ACDelco at http://acdelcotechconnect.com/html/tss_tech_esi.jsp***

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General Information

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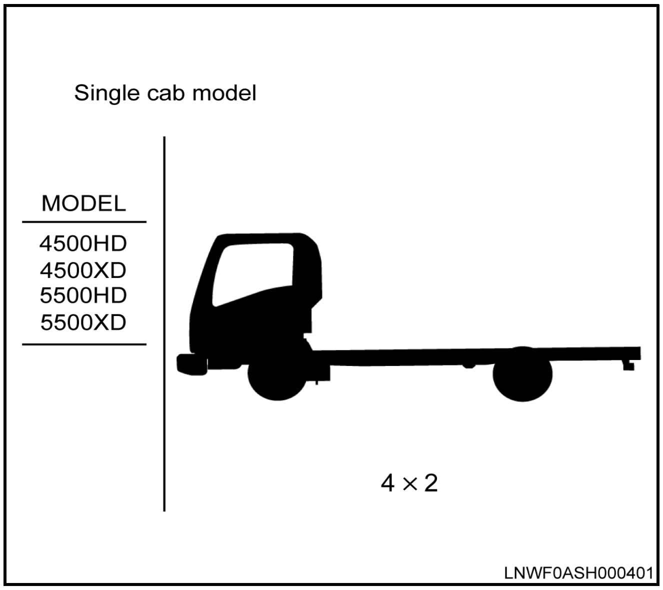
General Information

Introduction

Model Identification

The model covered in this manual are referred to as a 4500HD, 4500XD, 5500HD, 5500XD



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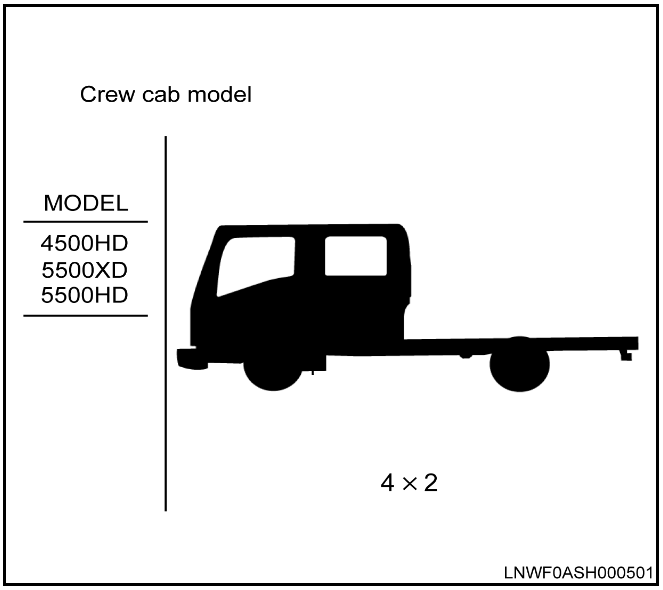

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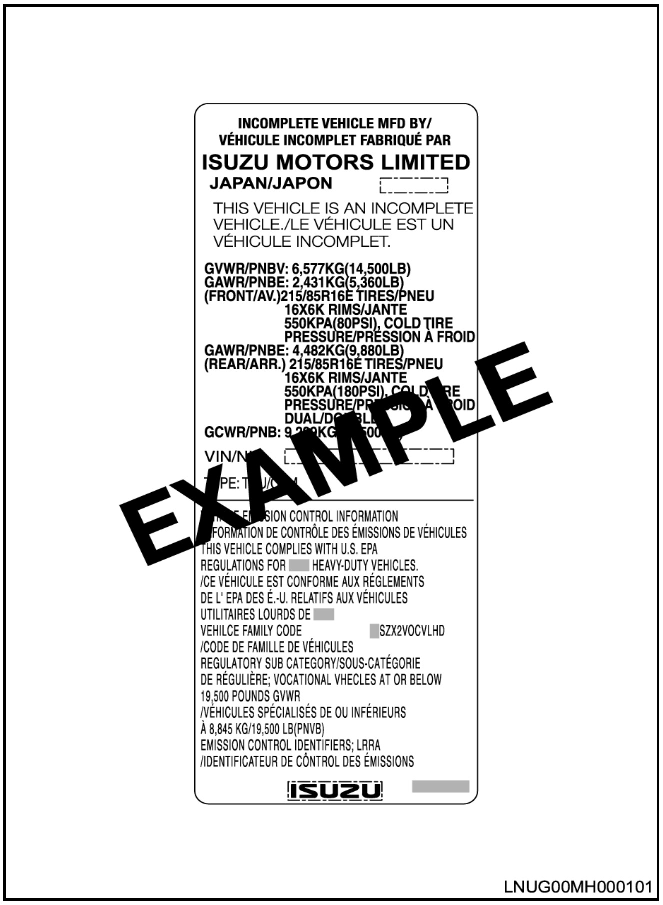
Vehicle Certification and Greenhouse Gas (GHG) Emissions Plate

The "Vehicle Certification and Greenhouse Gas (GHG) Emissions Plate" shows the manufacture's gross vehicle weight rating (GVWR), the front and rear gross axle weight ratings (GAWRs), as well as the VIN and emissions information for your vehicle. This plate is located on the left side rear pillar panel below the striker. The VIN is a legal identifier of your vehicle. It not only appears on the "VIN, Weight Rating, and Greenhouse Gas (GHG) emissions Plate", but also on the vehicle title and registration

The VIN specifically identifies a vehicle by code.



INCOMPLETE VEHICLE MFD BY/
VÉHICULE INCOMPLET FABRIQUÉ PAR
ISUZU MOTORS LIMITED
JAPAN/JAPON

THIS VEHICLE IS AN INCOMPLETE
VEHICLE./LE VÉHICULE EST UN
VÉHICULE INCOMPLET.

GVWR/PNBV: 6,577KG(14,500LB)
GAWR/PNBE: 2,431KG(5,360LB)
(FRONT/AV.)215/85R16E TIRES/PNEU
16X6K RIMS/JANTE
550KPA(80PSI), COLD TIRE
PRESSURE/PRESSION À FROID
GAWR/PNBE: 4,482KG(9,880LB)
(REAR/ARR.) 215/85R16E TIRES/PNEU
16X6K RIMS/JANTE
550KPA(180PSI), COLD [illegible]RE
PRESSURE/PR[illegible] À [illegible]OID
DUAL/DO[illegible]BLE
GCWR/PNB: 9,[illegible]KG[illegible]500[illegible]
VIN/N[illegible]
T[illegible]PE: T[illegible]U/C[illegible]

[illegible] E[illegible]SSION CONTROL INFORMATION
[illegible]FORMATION DE CONTRÔLE DES ÉMISSIONS DE VÉHICULES
THIS VEHICLE COMPLIES WITH U.S. EPA
REGULATIONS FOR HEAVY-DUTY VEHICLES.
/CE VÉHICULE EST CONFORME AUX RÉGLEMENTS
DE L' EPA DES É.-U. RELATIFS AUX VÉHICULES
UTILITAIRES LOURDS DE
VEHILCE FAMILY CODE SZX2VOCVLHD
/CODE DE FAMILLE DE VÉHICULES
REGULATORY SUB CATEGORY/SOUS-CATÉGORIE
DE RÉGULIÈRE; VOCATIONAL VHECLES AT OR BELOW
19,500 POUNDS GVWR
/VÉHICULES SPÉCIALISÉS DE OU INFÉRIEURS
À 8,845 KG/19,500 LB(PNVB)
EMISSION CONTROL IDENTIFIERS; LRRA
/IDENTIFICATEUR DE CÔNTROL DES ÉMISSIONS

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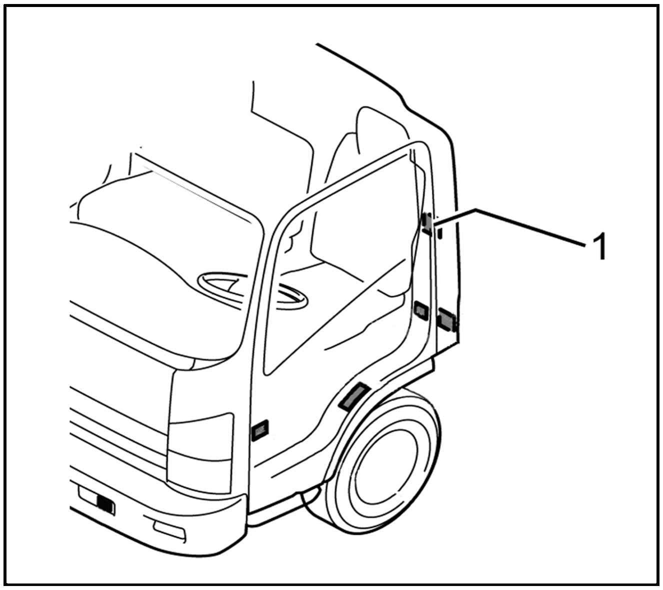
VIN Derivative



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The vehicle identification number (VIN) is located on a label on the driver side B-pillar (1).

Vehicle Identification Number (VIN) System

Position	Definition	Character	Description
1	Country of Origin	J	Japan (JAL)
		5	United States (54D)
2	Manufacturer	A	Isuzu Motors Ltd.
		4	Spartan Motors Chassis Inc.
3	Make	L	Incomplete Vehicle — Medium and Heavy Duty
		D	Incomplete Vehicle
4	GVWR/Brake System/Body Style	B	10,001–14,000 lbs/Hydraulic/03–Regular Cab
		C	14,001–116,000 lbs/Hydraulic/03–Regular Cab
		E	16,001–19,500 lbs/Hydraulic/03–Regular Cab
		B	10,001–14,000 lbs/Hydraulic/43–Crew Cab
		C	14,001–16,000 lbs/Hydraulic/43–Crew Cab
		E	16,001–19,000 lbs/Hydraulic/43–Crew Cab
5	Make/Sieres	D	GM Chevrolet 3500 / 3500HD / 4500 / 4500HD / 4500XD
		E	GM Chevrolet 5500HD/5500XD
6	Line/Cab Type	J	Non-Tilt Cab, BBC = 110 Inches
		W	Tilt Cab, BBC = 71 Inches
7	Chassis Type	1	4x2, 2 Axles, 1 Driving
8	Engine Type	B	L96 - ENGINE GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
		C	LC8 - ENGINE LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
		6	I1B - ENGINE DIESEL, 4 CYL, 5.2L, 4HK1TC 215HP
		7	IZ3 - ENGINE DIESEL, 4 CYL, 3.0L, 4JJ1-TC 150HP
9	Check Digit	—	0~9, X - Calculated by Manufacturer
10	Model Year	H	2018
11	Plant Location	S	Charlotte, Michigan
		7	Fujisawa, Japan
12	Model Combination	F	3500HD/4JJ1 Diesel/13,00 lbs
		K	4500XD/4HK1 Diesel/16,000 lbs
		0	4500HD/4HK1 Diesel/14,500 lbs
		3	5500XD/4HK1 Diesel/19,500 lbs
		8	3500 and 4500/Gas
		9	5500HD/4HK1 Diesel/17,950 lbs
13–17	Sequence Number	—	Positions 13 through 17 represent the number sequentially assigned by the manufacturer in the production process.

5.2L (4Hk1) Engine ID and VIN Derivative Location

Refer to Engine Identification.

GVWR (Gross Vehicle Weight Rating)

The GVWR is the weight of a vehicle plus the weight of a vehicle’s load. For the gross vehicle weight rating and the gross vehicle combined weight rating, refer to Model Explanation. For the gross vehicle weight rating range refer to the VIN Chart.

RPO Code List

The RPO list contains RPOs available on this model. Also, refer to the Service Parts Identification label for a list of the RPOs used on each specific vehicle.

Option Code	Option Description
005	RATIO-4.56 (4 5/9)
011	RATIO-5.57 (5 4/7)
029	RATIO-4.77
062	RATIO-5.12
066	RATIO-4.10 (4 1/10)
092	RATIO-4.3
14B	TRIM COMBINATION-CLOTH, VERY DK GRAY (B) (97)
16U	PRIMARY COLOR-EXTERIOR, WHITE (02)152D
1WT	PACKAGE-WT OPTION 1
24J	SEAT BELT COLOR-RED, DRIVER SEAT ONLY
24K	SEAT BELT COLOR-RED, DRIVER AND PASSENGER SEAT
2TA	TIRE FRONT-LT215/85R16 E 115/112 L BW ALS VAR1
2TB	TIRE FRONT-225/70R19.5F 125/123L BW HWY VAR1
2TC	TIRE FRONT-225/70R19.5 G 125/123 L BW HWY VAR1.
3TA	TIRE REAR-LT215/85R16 E 115/112 L BW ALS VAR1
3TB	TIRE REAR-225/70R19.5F 125/123L BW HWY VAR1
3TC	TIRE REAR-225/70R19.5 G 128/126 L BW HWY VAR1
41U	PRIMARY COLOR-EXTERIOR, BLACK (8555)
46U	PRIMARY COLOR-EXTERIOR, DK GREEN (02)
47U	PRIMARY COLOR-EXTERIOR, DK BLUE MET (02)
69I	INTERIOR TRIM-VERY DK PEWTER (01)
74U	PRIMARY COLOR-EXTERIOR, CARDINAL RED (02)
86U	PRIMARY COLOR-EXTERIOR, YELLOW (02)
9B9	GOVERNOR-ELECTRONIC SPEED SENSOR - 70 MPH
9C2	GOVERNOR-ELECTRONIC SPEED SENSOR - 65 MPH
9D2	GOVERNOR-ELECTRONIC SPEED SENSOR - 58 MPH
9E2	GOVERNOR-ELECTRONIC SPEED SENSOR - 68 MPH
9W8	COVER-SEAT PROTECTOR
A1F	SEAT-FRT BKT, HIGH BACK, DRIVER & PASS
A1G	SEAT-FRT BKT, HIGH BACK, DRIVER ONLY AIR SUSPENSION & PASS
A31	WINDOW-POWER OPERATED, ALL DOORS (DO NOT USE ON NEW/ MAJOR PROGRAMS)
ATG	LOCK CONTROL, ENTRY-REMOTE ENTRY, STANDARD RANGE
AU3	LOCK CONTROL-SIDE DR, ELEC
C42	HVAC SYSTEM-HEATER, OUTSIDE AIR, DELUXE
C60	HVAC SYSTEM-AIR CONDITIONER FRT, MAN CONTROLS
C7J	GVW RATING-13,000 LBS
C7L	GVW RATING-12,000 LBS
C7P	GVW RATING-16,000 LBS
C7S	GVW RATING-14,500 LBS
C7X	GVW RATING-17,950 LBS
CD7	WIPER SYS WINDSHIELD-PULSE, WET ARM
CSM	PLANT CODE-CHARLOTTE, MI, USA
DB5	MIRROR O/S-LH & RH, WIDE LOAD, INTEGRAL ARM
DB6	MIRROR O/S-LH & RH, WIDE LOAD, ELEC REMOTE CONTROL, LIGHTED, HEATED, INTEGRAL ARM
DB8	MIRROR O/S-LH & RH, WIDE LOAD, HEATED, INTEGRAL ARM
E01	STEPS-ASSIST
E8C	EQUIPMENT-CAN INTERFACE CONVERTER
EB4	WHEELBASE-109 INCH
EF7	COUNTRY-UNITED STATES OF AMERICA (USA)
EG7	WHEELBASE-236 INCH
EG9	WHEELBASE-152 INCH
EH8	WHEELBASE-170 INCH
EK6	WHEELBASE-224 INCH
EK8	WHEELBASE-188 INCH
EL5	WHEELBASE-212 INCH
EM2	WHEELBASE-200 INCH
ES5	WHEELBASE-248 INCH
F26	SUSPENSION FRONT-12000 LB (5,450 KG), TAPERED LEAF
FHO	VEHICLE FUEL-GASOLINE E10
FHX	VEHICLE FUEL-DIESEL B20
FL5	AXLE FRONT-6,830 LB (3,098 KG)
FL6	AXLE FRONT-7,275 LB (3,299 KG)
FL9	SUSPENSION FRONT-6,830 LB (3,098 KG), TAPERED LEAF
FM2	SUSPENSION FRONT-8,440 LB, 3,828 KG) TAPERED LEAF
FNJ	WHEELBASE-132.5 INCH / 3,365 MM

Option Code	Option Description
FNW	WHEELBASE-176 INCH
FS7	AXLE FRONT-12,000 LB (5,450 KG), HD
FU3	SUSPENSION REAR-9,880 LB (4,481 KG), MULTILEAF
FU4	SUSPENSION REAR-12,900 LB (5,851 KG), MULTILEAF
FU5	SUSPENSION REAR-14,308 LB (6,490 KG), MULTILEAF
FU6	SUSPENSION REAR-14,550 LB (6,559 KG), MULTILEAF
FUJ	PLANT CODE-FUJISAWA, JAPAN
FWH	WHEELBASE-150 INCH/3,815 MM
G7M	EQUIPMENT-AIR DEFLECTOR - OVER CAB
G86	AXLE-LIMITED SLIP
GN8	SUSPENSION REAR-21,000 LB (9,525 KG), MULTILEAF
GZG	GVW RATING-19,500 LBS
GZI	GVW RATING-25,950 LBS
HNF	INTERIOR TRIM CONFIG-CLOTH, V DK PEWTER
HPK	AXLE REAR-19,000 LB (8,618 KG), DANA 19060S, SINGLE SPEED
HS6	AXLE REAR-11,020 LB (4,998 KG)
HS9	AXLE REAR-14,550LB (6,599 KG)
I18	ENGINEERING YEAR-2018
I1B	ENGINE-DIESEL, 4 CYL, 5.2L, 4HK1TC 215HP
IR7	TRANSMISSION-AUTO 6 SPD, HMD, A465
IX0	TRANSMISSION-AUTO 6 SPD, HMD, A460
IX2	SWITCH-DOME LAMP, REAR BODY
IZ3	ENGINE-DIESEL, 4 CYL, 3.0L, 4JJ1-TC 150HP
J69	BRAKE PARKING-MECHANICALLY OPERATED
JE4	BRAKE-AIR
JE5	BRAKE SYSTEM-PWR, ANTILOCK, FRT & RR WHL
K05	HEATER ENG-BLOCK
K34	CRUISE CONTROL-AUTOMATIC, ELECTRONIC
K40	ENGINE BRAKE-EXHAUST
K45	AIR CLEANER-HEAVY DUTY
K63	GENERATOR-110 AMP
KG3	GENERATOR-145 AMP
KG9	GENERATOR-140 AMP
KPG	CAP-DEF FILL, LOCKING
KPJ	ENGINE SHUTDOWN-AUTOMATIC
KPK	HEATER-OIL PAN

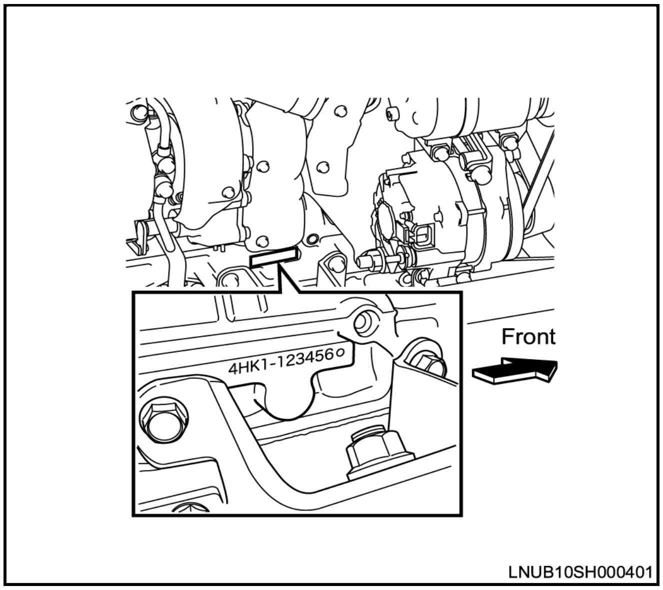
Option Code	Option Description
KQJ	ENGINE SHUTDOWN-AUTOMATIC, 3 MINUTE TIMER
KQN	ENGINE SHUTDOWN-AUTOMATIC, 5 MINUTE TIMER
KQS	CAP-DEF FILL, LOCKING, KEYED ALIKE
L96	ENGINE-GAS, 8 CYL, 6.0L, SFI, E85 MAX, IRON, GM
LC8	ENGINE-LPG/CNG, 8 CYL, V8, 6.0L, SFI, GEN 1, GMNA
MAH	MARKETING AREA-US, PUERTO RICO/USVI
MPQ	TRANSMISSION-AUTO 6 SPD, ALLISON, 2550RDS/HS CONV CLUTCH, WITH PARK PAWL.
MTE	PROVISIONS-FIRE EXTINGUISHER/ SAFETY REFLECTOR KIT MOUNTING
MYD	TRANSMISSION-AUTO 6 SPD, HMD, 6L90
N33	STEERING COLUMN-TILT TYPE
N3R	STEERING WHEEL-URETHANE
N4C	CERTIFICATION-EMISSION, USA 50 STATE
N4E	EMISSION SYSTEM-USA, 50 STATE
NB5	EXHAUST SYSTEM-SINGLE
NC2	EXHAUST SYSTEM-SINGLE HORIZONTAL
NH2	FUEL TANK-113L, 30 GAL
NL0	FUEL TANK-189L, 50 GAL
NL7	FUEL TANK-FRONT, 33GAL, 125L
NLX	TANK-FUEL, LH MOUNT, 33 GAL ADDITIONAL
NNB	FUEL TANK-378L, 100 GAL
NPV	EXHAUST SYSTEM-SINGLE VERTICAL MUFF & TAILPIPE CAB MOUNTED
PTO	ENGINE CONTROL-POWER TAKE OFF (PTO) CONTROLS
PTX	ENGINE CONTROL-POWER TAKE-OFF (PTO), CONTROLS - NONE
PWJ	WHEEL-16 X 6.0, K, STEEL, DESIGN 1
PWK	WHEEL-19.5 X 6.0, K STEEL, DESIGN 1
RQ2	VEHICLE APPLICATION-TRUCK SERVICE
RWL	CHASSIS DRIVE LINE-REAR WHEEL DRIVE (RWD)
TP6	BATTERY-750 CCA, 12V, (SINGLE)
TP7	BATTERY-750 CCA, 12V, (DUAL)
UAD	SPEAKER SYSTEM-2, FRONT, BASE
UDH	DISPLAY INSTRUMENT-DRIVER INFO (ONE COLOR GRAPHIC)
UIY	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT
UIZ	RADIO-AM STEREO/FM STEREO, CD, AUX INPUT, USB PORT, BLUETOOTH

Option Code	Option Description
UL5	RADIO-(NONE)
UZF	ALARM B/U-ELECTRICAL,
V22	GRILLE-RADIATOR, CHROME
V8D	VEHICLE STATEMENT-US
VT7	OWNERS MANUAL-ENGLISH LANGUAGE
VWX	GRILLE-BASE VEHICLE
VXT	VEHICLE TYPE-INCOMPLETE
WMJ	VIN MODEL YEAR-2018
X88	MARKET BRAND-CHEVROLET
XWL	MIRROR PROVISIONS-102" MIRROR BRACKET
ZY1	COLOR COMBINATION-SOLID

Engine Identification

4HK1 Engine

The engine number is stamped on the right-side front part of the engine block.



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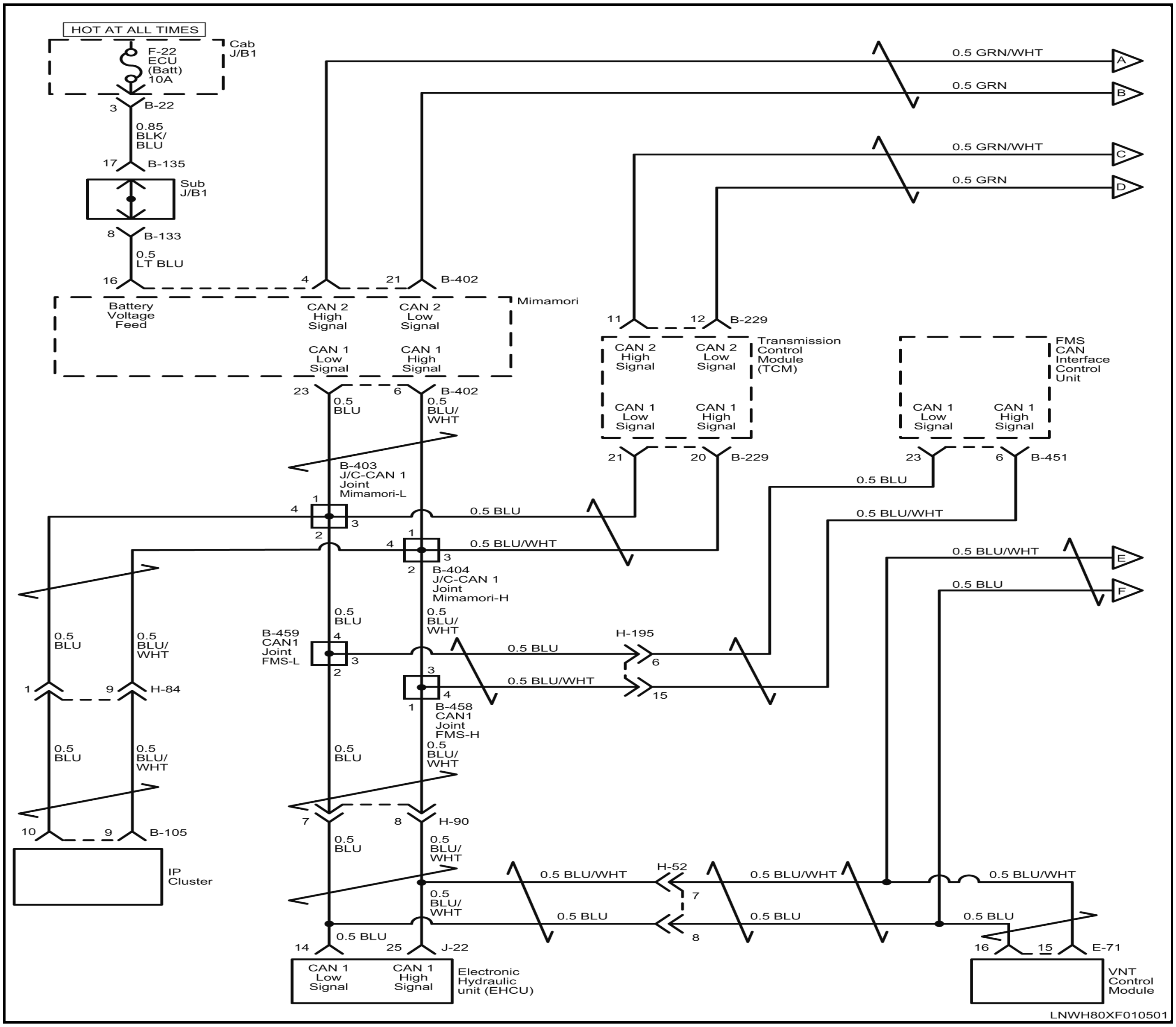
Cab and Chassis Electrical

Schematic and Routing Diagrams

Controller Area Network (CAN) Schematics


HOT AT ALL TIMES
Cab J/B1
F-22 ECU (Batt) 10A
3 B-22
0.85 BLK/ BLU
17 B-135
Sub J/B1
8 B-133
0.5 LT BLU
16
4
21 B-402
Mimamori
Battery Voltage Feed
CAN 2 High Signal
CAN 2 Low Signal
CAN 1 Low Signal
CAN 1 High Signal
23
6 B-402
0.5 BLU
0.5 BLU/ WHT
0.5 GRN/WHT
A
0.5 GRN
B
0.5 GRN/WHT
C
0.5 GRN
D
11
12 B-229
Transmission Control Module (TCM)
CAN 2 High Signal
CAN 2 Low Signal
CAN 1 Low Signal
CAN 1 High Signal
21
20 B-229
FMS CAN Interface Control Unit
CAN 1 Low Signal
CAN 1 High Signal
23
6 B-451
B-403 J/C-CAN 1 Joint Mimamori-L
0.5 BLU
0.5 BLU/WHT
0.5 BLU
0.5 BLU/WHT
B-404 J/C-CAN 1 Joint Mimamori-H
0.5 BLU/WHT
E
0.5 BLU
F
B-459 CAN1 Joint FMS-L
H-195
0.5 BLU
6
0.5 BLU/WHT
15
B-458 CAN1 Joint FMS-H
0.5 BLU
0.5 BLU/ WHT
1
9 H-84
7
8 H-90
10
9 B-105
IP Cluster
0.5 BLU/WHT
H-52
7
0.5 BLU
8
0.5 BLU/WHT
0.5 BLU/WHT
0.5 BLU
0.5 BLU
0.5 BLU
14
25 J-22
CAN 1 Low Signal
CAN 1 High Signal
Electronic Hydraulic unit (EHCU)
16
15 E-71
VNT Control Module
LNWH80XF010501

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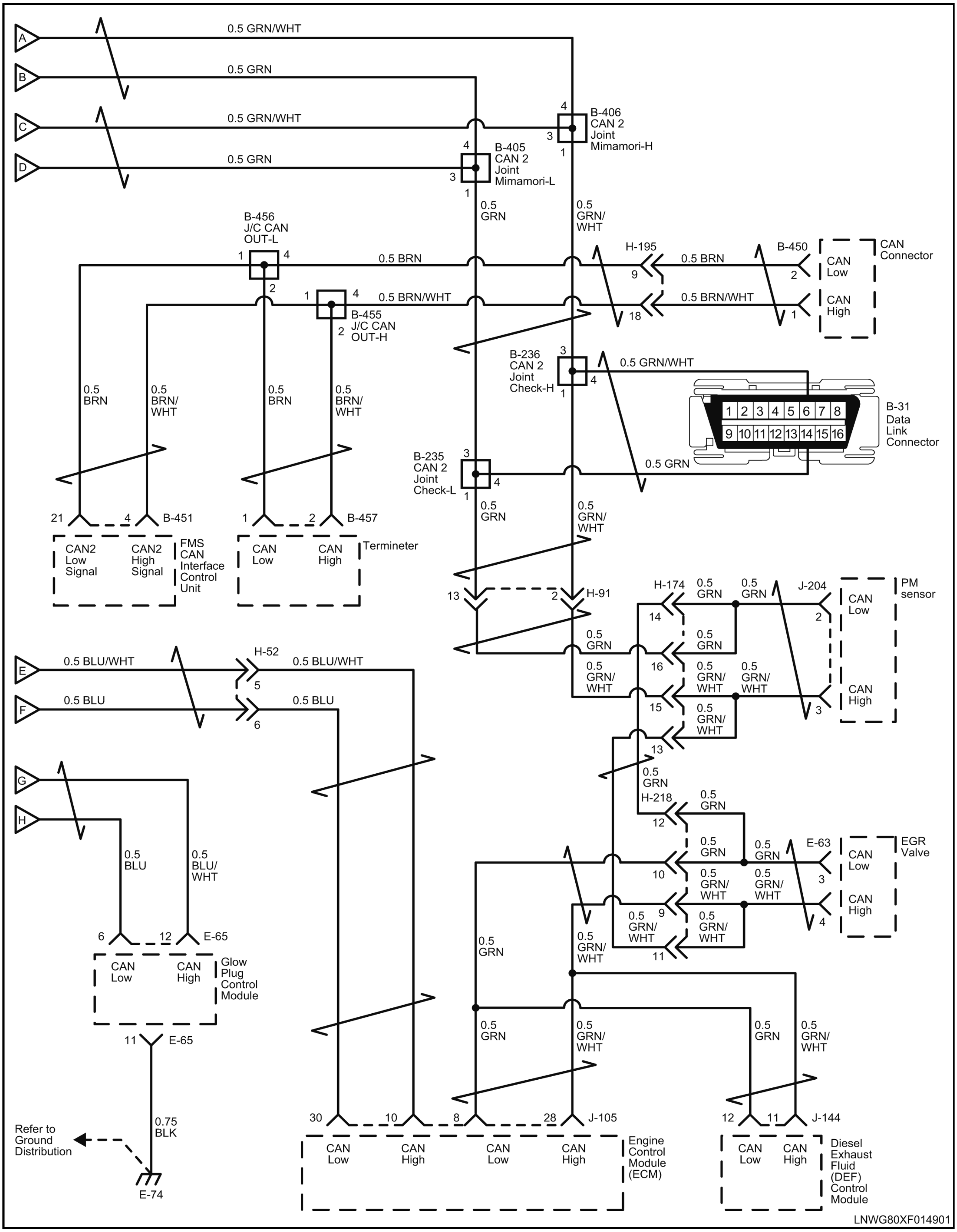
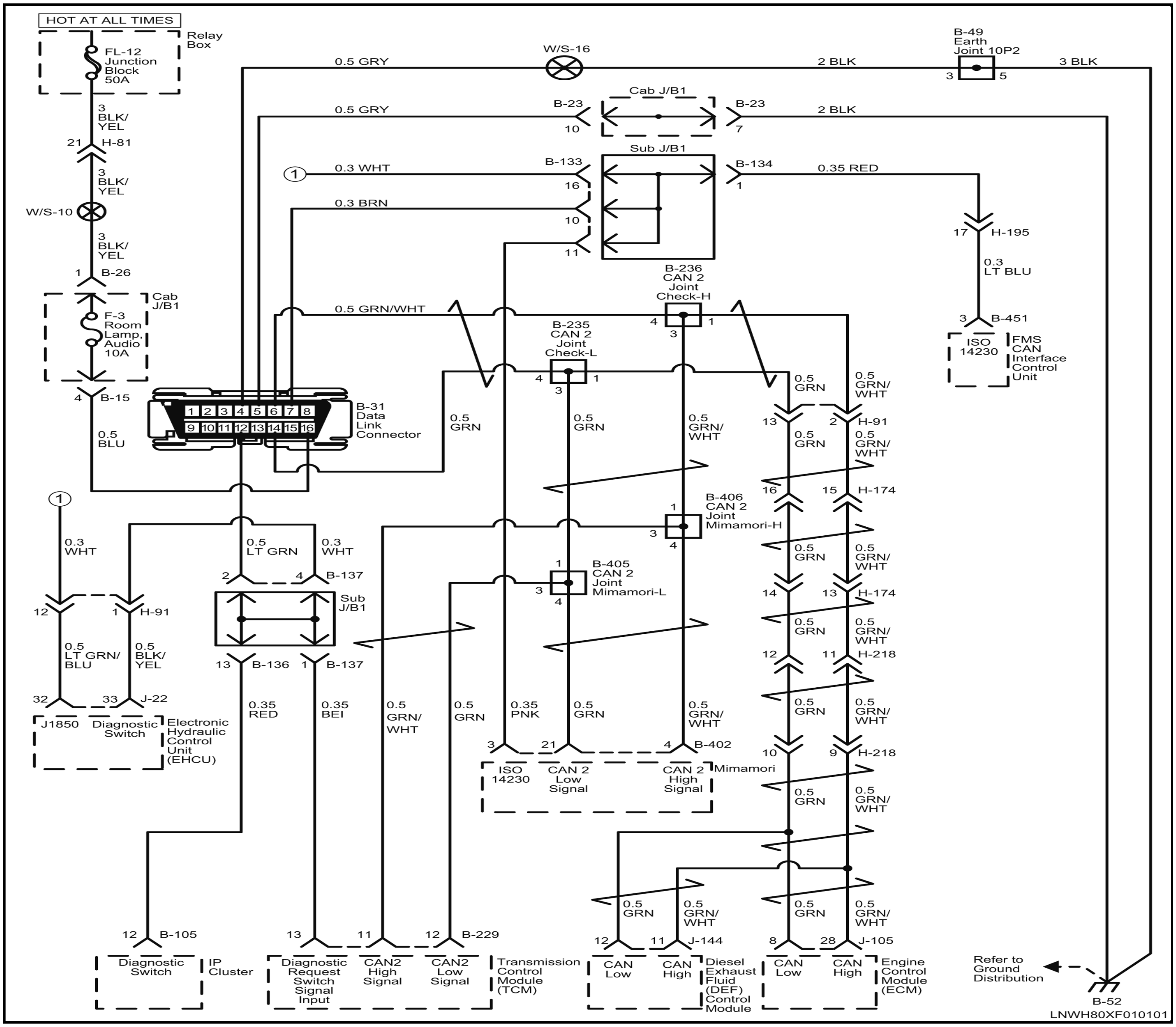

A
B
C
D
0.5 GRN/WHT
0.5 GRN
0.5 GRN/WHT
0.5 GRN
4
B-406
CAN 2
Joint
Mimamori-H
3
1
4
B-405
CAN 2
Joint
Mimamori-L
3
1
0.5
GRN
0.5
GRN/
WHT
B-456
J/C CAN
OUT-L
1
4
2
0.5 BRN
H-195
0.5 BRN
B-450
CAN Connector
CAN
Low
9
2
1
4
0.5 BRN/WHT
0.5 BRN/WHT
CAN
High
18
1
B-455
J/C CAN
OUT-H
2
B-236
CAN 2
Joint
Check-H
3
4
1
0.5 GRN/WHT
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B-31
Data
Link
Connector
0.5
BRN
0.5
BRN/
WHT
0.5
BRN
0.5
BRN/
WHT
B-235
CAN 2
Joint
Check-L
3
4
1
0.5 GRN
0.5
GRN
0.5
GRN/
WHT
21
4
B-451
1
2
B-457
CAN2
Low
Signal
CAN2
High
Signal
FMS
CAN
Interface
Control
Unit
CAN
Low
CAN
High
Termineter
13
2
H-91
H-174
0.5
GRN
0.5
GRN
J-204
PM
sensor
CAN
Low
14
2
0.5
GRN
0.5
GRN
16
0.5
GRN/
WHT
0.5
GRN/
WHT
0.5
GRN/
WHT
CAN
High
15
3
0.5
GRN/
WHT
13
E
F
0.5 BLU/WHT
H-52
0.5 BLU/WHT
5
0.5 BLU
0.5 BLU
6
G
H
0.5
GRN
H-218
0.5
GRN
12
0.5
GRN
0.5
GRN
E-63
EGR
Valve
CAN
Low
10
3
0.5
GRN/
WHT
0.5
GRN/
WHT
CAN
High
0.5
GRN/
WHT
9
0.5
GRN/
WHT
4
0.5
BLU
0.5
BLU/
WHT
11
0.5
GRN
0.5
GRN/
WHT
6
12
E-65
CAN
Low
CAN
High
Glow
Plug
Control
Module
11
E-65
0.5
GRN
0.5
GRN/
WHT
0.5
GRN
0.5
GRN/
WHT
0.75
BLK
Refer to
Ground
Distribution
E-74
30
10
8
28
J-105
12
11
J-144
CAN
Low
CAN
High
CAN
Low
CAN
High
Engine
Control
Module
(ECM)
CAN
Low
CAN
High
Diesel
Exhaust
Fluid
(DEF)
Control
Module
LNWG80XF014901

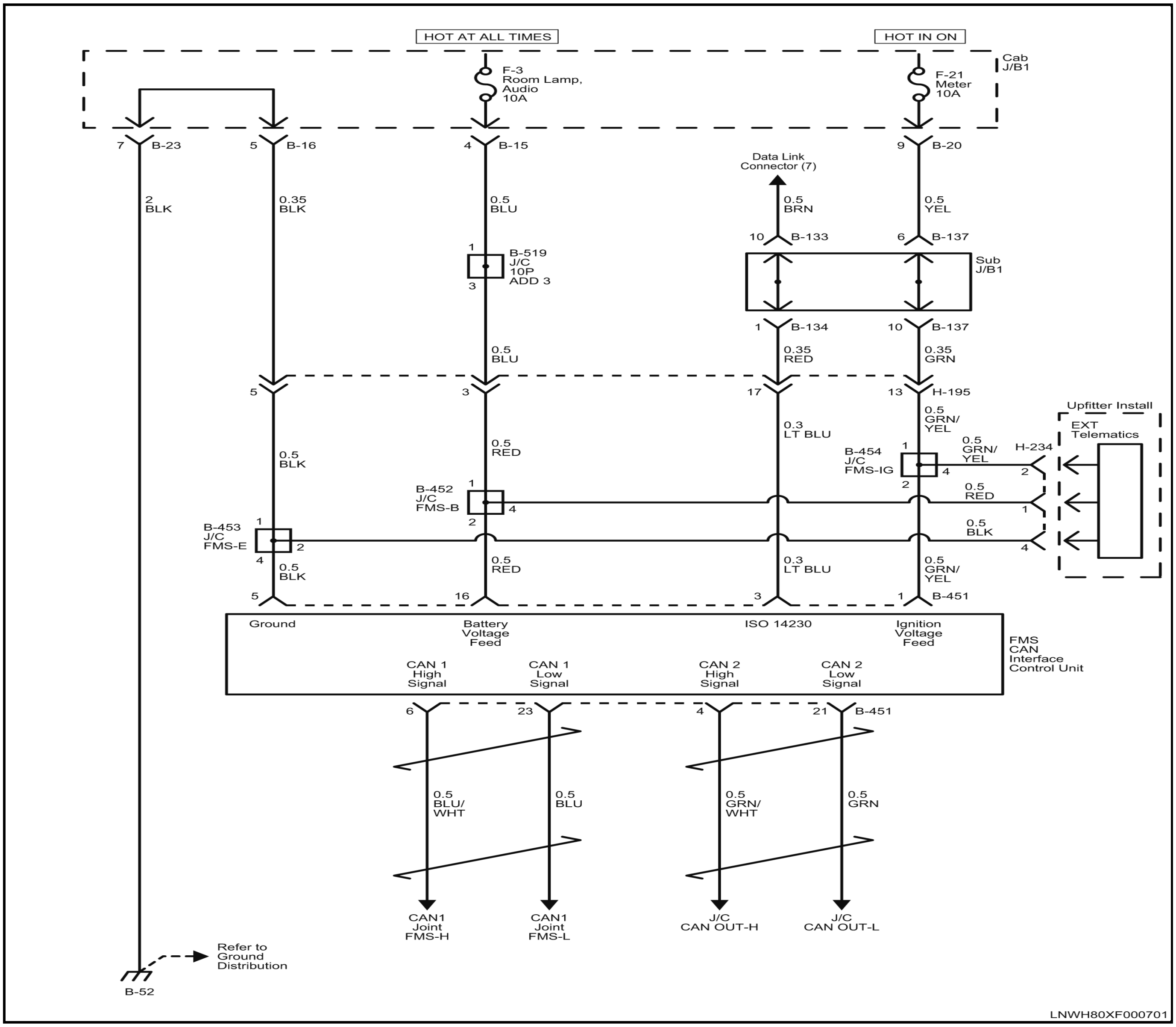
4506909

Data Link Connector Schematics


HOT AT ALL TIMES
Relay Box
FL-12 Junction Block 50A
3 BLK/ YEL
21 H-81
3 BLK/ YEL
W/S-10
3 BLK/ YEL
1 B-26
Cab J/B1
F-3 Room Lamp, Audio 10A
4 B-15
0.5 BLU
W/S-16
0.5 GRY
2 BLK
B-49 Earth Joint 10P2
3 5
3 BLK
Cab J/B1
B-23 10
B-23 7
0.5 GRY
2 BLK
Sub J/B1
B-133 16
B-134 1
0.3 WHT
0.35 RED
0.3 BRN
10
11
17 H-195
0.3 LT BLU
3 B-451
ISO 14230
FMS CAN Interface Control Unit
B-236 CAN 2 Joint Check-H
4 1 3
0.5 GRN/WHT
B-235 CAN 2 Joint Check-L
4 1 3
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
B-31 Data Link Connector
0.5 GRN
0.5 GRN
0.5 GRN/ WHT
0.5 GRN
0.5 GRN/ WHT
13 2 H-91
0.5 GRN
0.5 GRN/ WHT
16 15 H-174
B-406 CAN 2 Joint Mimamori-H
1 3 4
0.5 GRN
0.5 GRN/ WHT
14 13 H-174
B-405 CAN 2 Joint Mimamori-L
1 3 4
0.5 GRN
0.5 GRN/ WHT
12 11 H-218
0.5 GRN
0.5 GRN/ WHT
10 9 H-218
0.5 GRN
0.5 GRN/ WHT
1
0.3 WHT
0.5 LT GRN
0.3 WHT
2 4 B-137
Sub J/B1
12 1 H-91
0.5 LT GRN/ BLU
0.5 BLK/ YEL
32 33 J-22
J1850
Diagnostic Switch
Electronic Hydraulic Control Unit (EHCU)
13 B-136
1 B-137
0.35 RED
0.35 BEI
0.5 GRN/ WHT
0.5 GRN
0.35 PNK
0.5 GRN
0.5 GRN/ WHT
3 21 4 B-402
ISO 14230
CAN 2 Low Signal
CAN 2 High Signal
Mimamori
0.5 GRN
0.5 GRN/ WHT
0.5 GRN
0.5 GRN/ WHT
12 B-105
Diagnostic Switch
IP Cluster
13 11 12 B-229
Diagnostic Request Switch Signal Input
CAN2 High Signal
CAN2 Low Signal
Transmission Control Module (TCM)
12 11 J-144
CAN Low
CAN High
Diesel Exhaust Fluid (DEF) Control Module
8 28 J-105
CAN Low
CAN High
Engine Control Module (ECM)
Refer to Ground Distribution
B-52
LNWH80XF010101

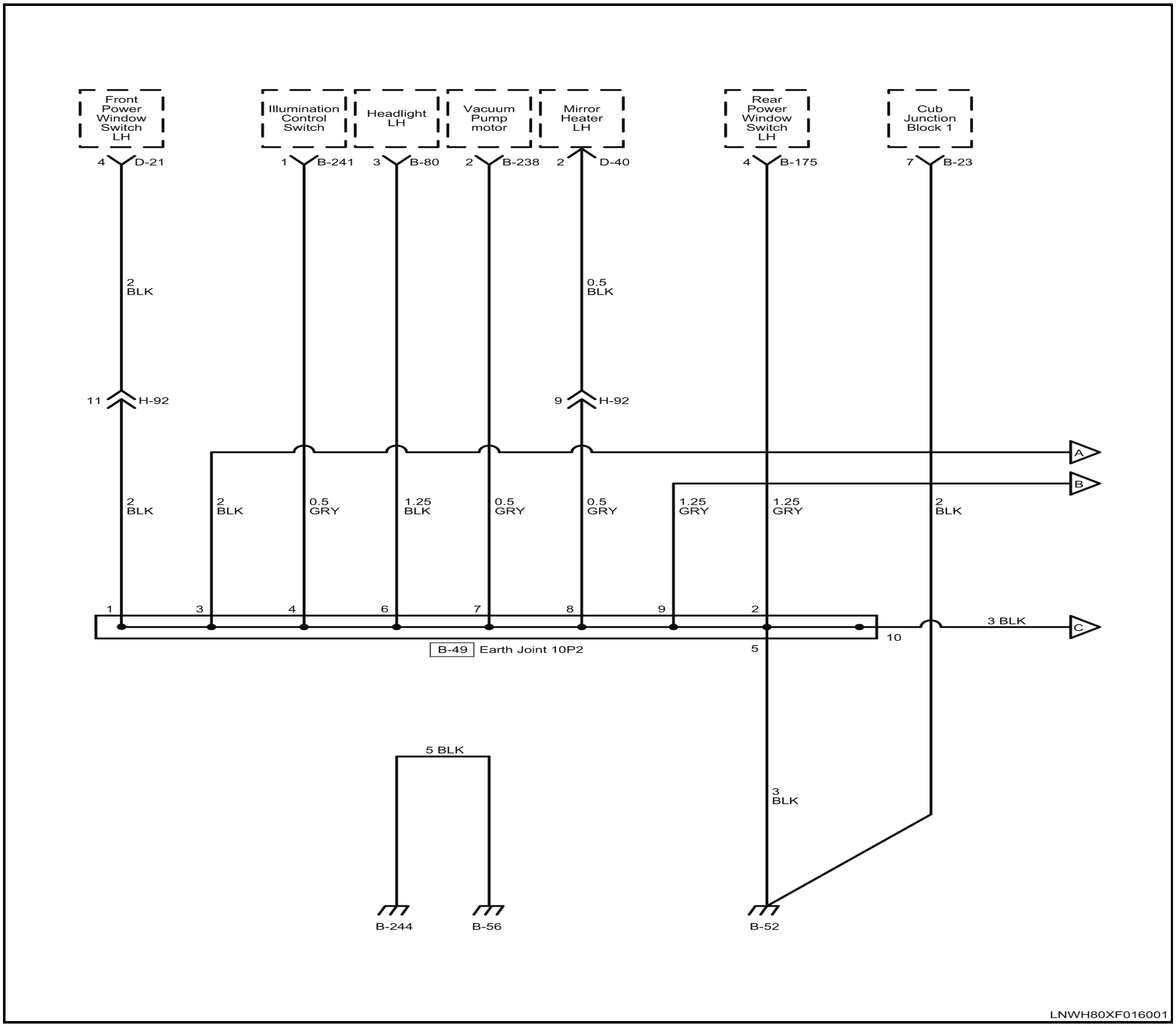
4710748

FMS CAN Interface Schematics

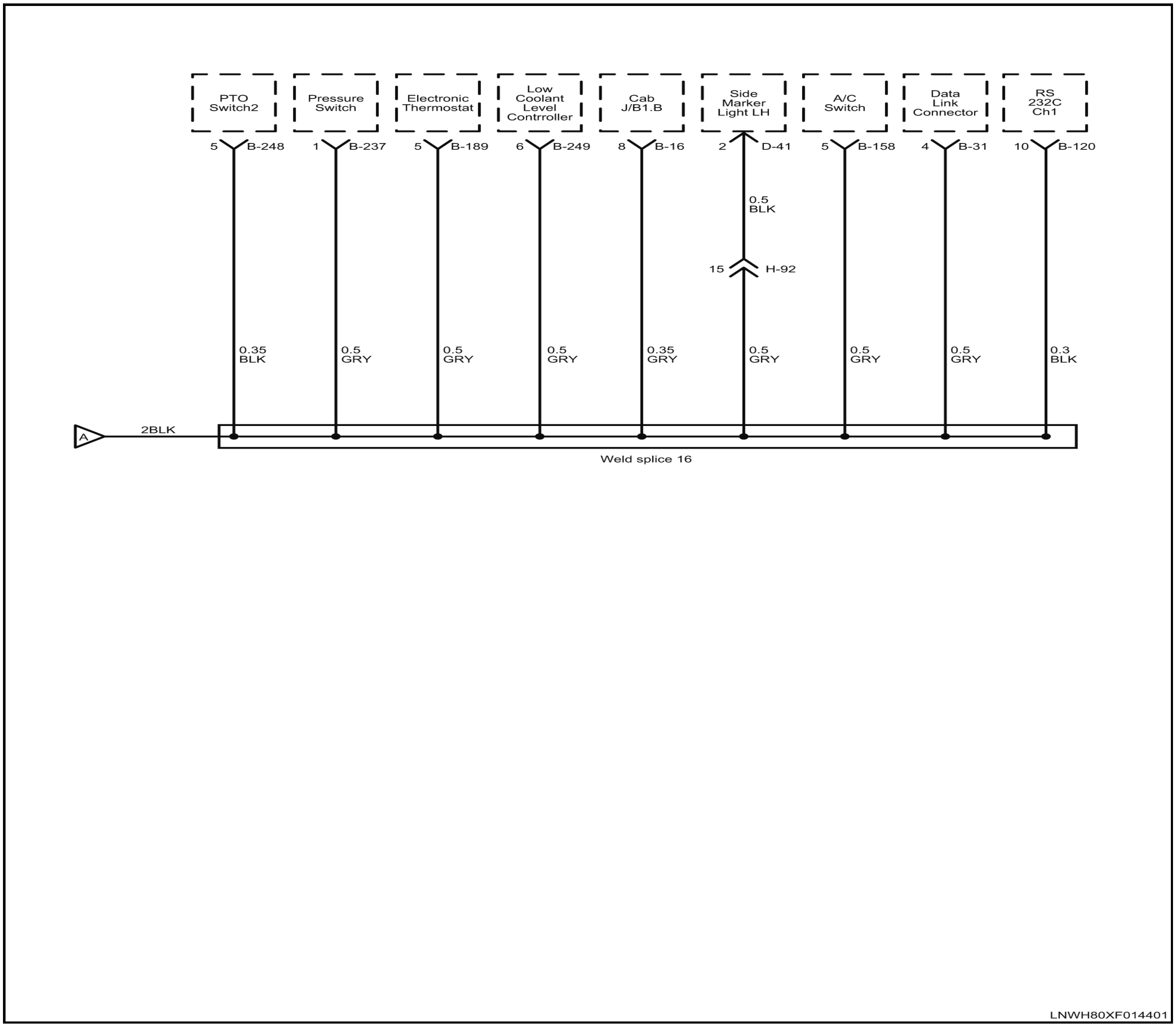

HOT AT ALL TIMES
HOT IN ON
Cab J/B1
F-3 Room Lamp, Audio 10A
F-21 Meter 10A
7 B-23
5 B-16
4 B-15
9 B-20
2 BLK
0.35 BLK
0.5 BLU
Data Link Connector (7)
0.5 BRN
0.5 YEL
10 B-133
6 B-137
B-519 J/C 10P ADD 3
1
3
Sub J/B1
1 B-134
10 B-137
0.5 BLU
0.35 RED
0.35 GRN
5
3
17
13 H-195
0.5 GRN/ YEL
Upfitter Install
EXT Telematics
0.3 LT BLU
0.5 RED
0.5 BLK
B-454 J/C FMS-IG
1
4
2
0.5 GRN/ YEL
H-234
2
B-452 J/C FMS-B
1
4
2
0.5 RED
1
B-453 J/C FMS-E
1
2
4
0.5 BLK
4
0.5 BLK
0.5 RED
0.3 LT BLU
0.5 GRN/ YEL
5
16
3
1 B-451
Ground
Battery Voltage Feed
ISO 14230
Ignition Voltage Feed
FMS CAN Interface Control Unit
CAN 1 High Signal
CAN 1 Low Signal
CAN 2 High Signal
CAN 2 Low Signal
6
23
4
21 B-451
0.5 BLU/ WHT
0.5 BLU
0.5 GRN/ WHT
0.5 GRN
CAN1 Joint FMS-H
CAN1 Joint FMS-L
J/C CAN OUT-H
J/C CAN OUT-L
Refer to Ground Distribution
B-52
LNWH80XF000701

4710769

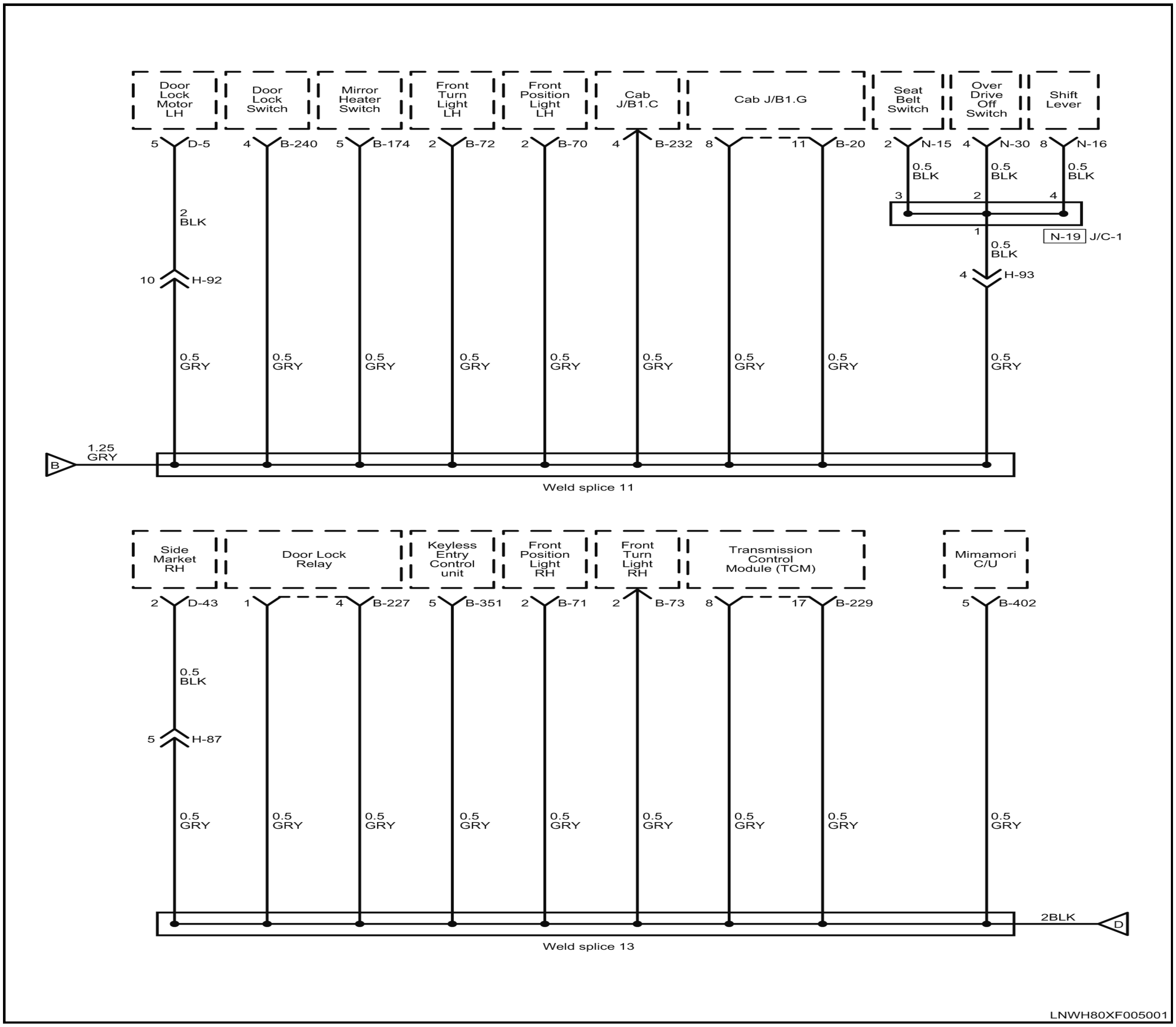
Ground Distribution Schematics


Front Power Window Switch LH
Illumination Control Switch
Headlight LH
Vacuum Pump motor
Mirror Heater LH
Rear Power Window Switch LH
Cub Junction Block 1
4 D-21
1 B-241
3 B-80
2 B-238
2 D-40
4 B-175
7 B-23
2 BLK
0.5 BLK
11 H-92
9 H-92
A
B
C
2 BLK
2 BLK
0.5 GRY
1.25 BLK
0.5 GRY
0.5 GRY
1.25 GRY
1.25 GRY
2 BLK
1
3
4
6
7
8
9
2
10
5
3 BLK
B-49 Earth Joint 10P2
5 BLK
3 BLK
B-244
B-56
B-52
LNWH80XF016001

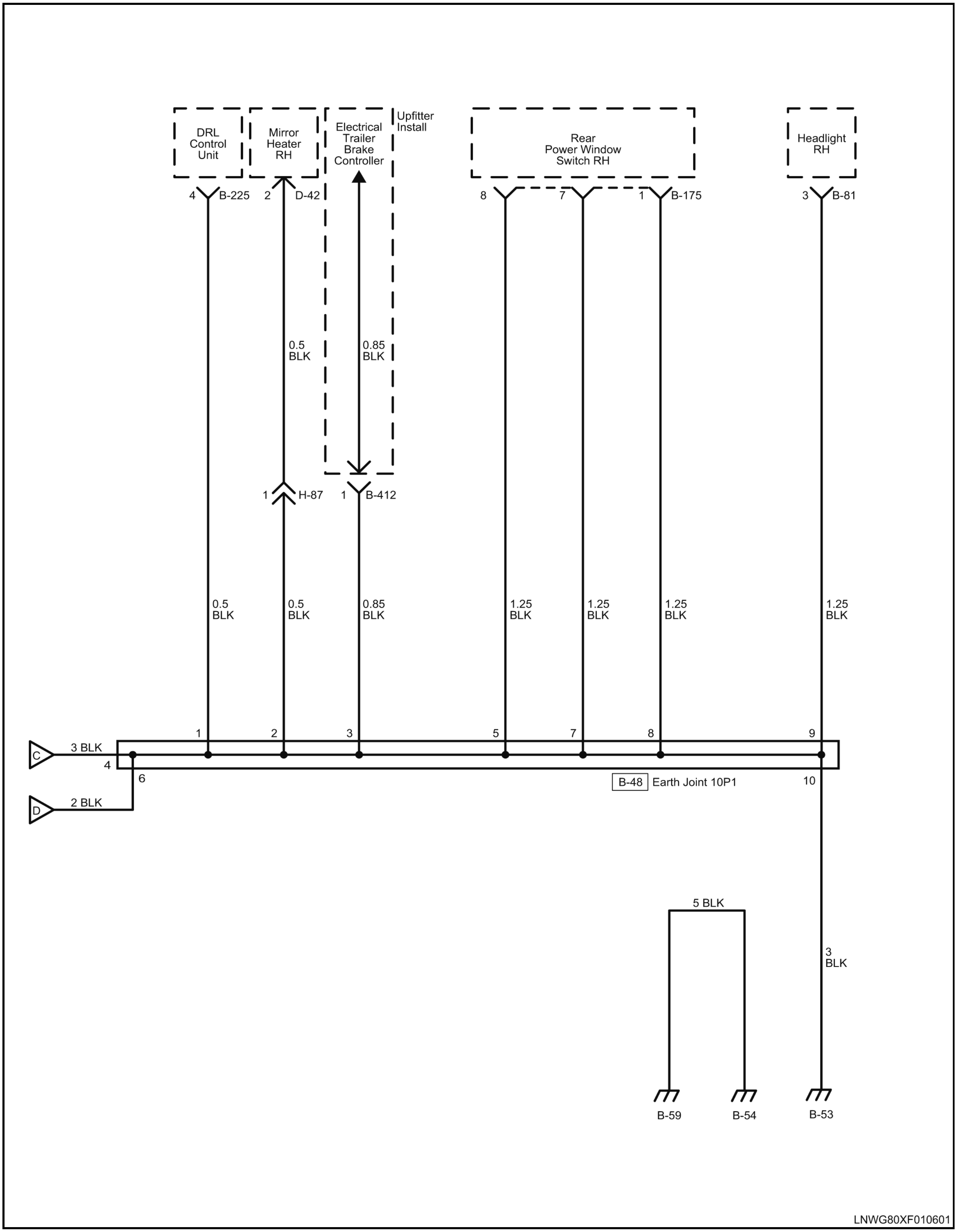
4709091


PTO Switch2
Pressure Switch
Electronic Thermostat
Low Coolant Level Contrroller
Cab J/B1.B
Side Marker Light LH
A/C Switch
Data Link Connector
RS 232C Ch1
5 B-248
1 B-237
5 B-189
6 B-249
8 B-16
2 D-41
5 B-158
4 B-31
10 B-120
0.5 BLK
15 H-92
0.35 BLK
0.5 GRY
0.5 GRY
0.5 GRY
0.35 GRY
0.5 GRY
0.5 GRY
0.5 GRY
0.3 BLK
A
2BLK
Weld splice 16
LNWH80XF014401

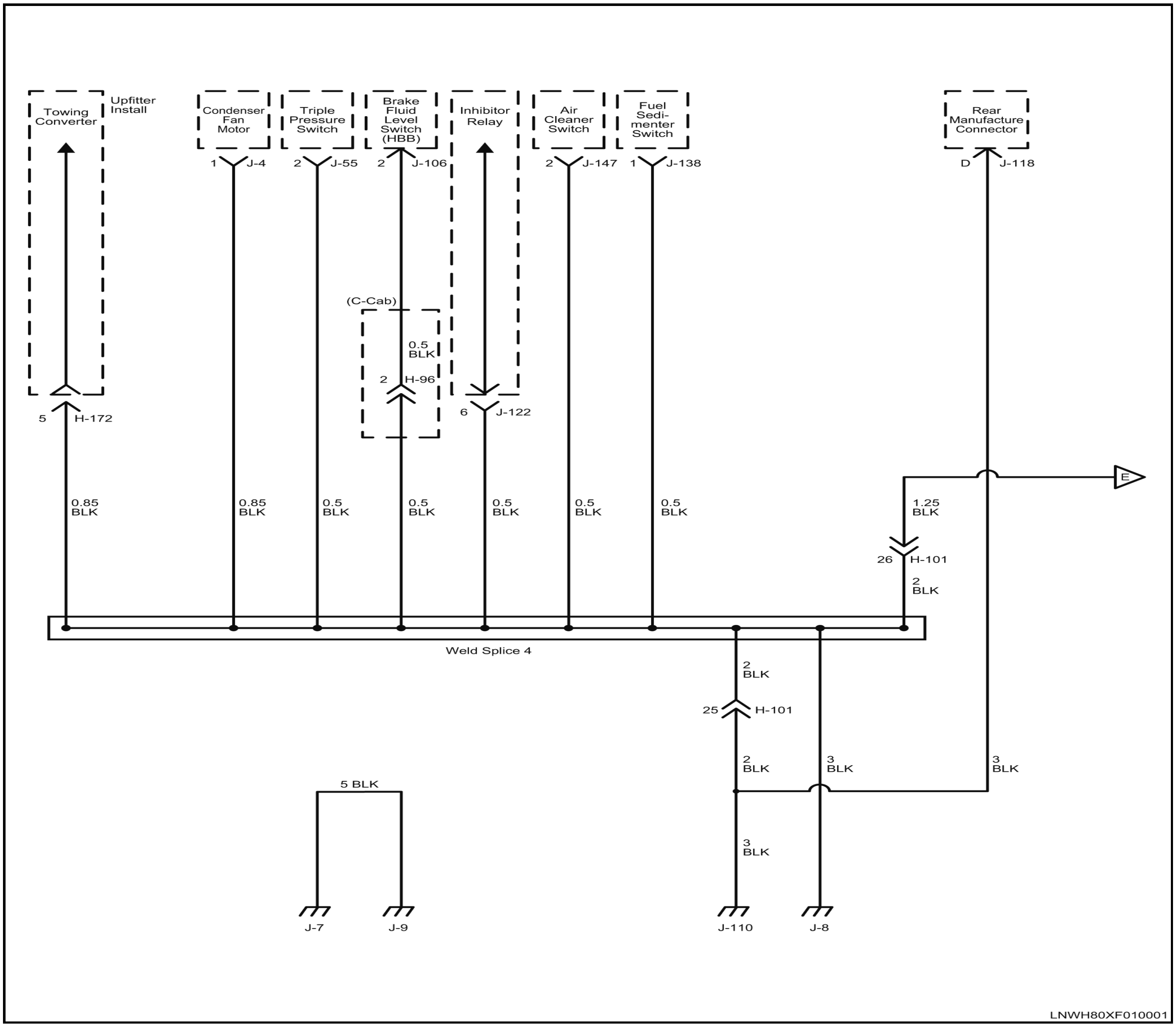
4709100


Door Lock Motor LH
Door Lock Switch
Mirror Heater Switch
Front Turn Light LH
Front Position Light LH
Cab J/B1.C
Cab J/B1.G
Seat Belt Switch
Over Drive Off Switch
Shift Lever
5 D-5
4 B-240
5 B-174
2 B-72
2 B-70
4 B-232
8
11 B-20
2 N-15
4 N-30
8 N-16
0.5 BLK
3
2
4
1
N-19 J/C-1
4 H-93
2 BLK
10 H-92
0.5 GRY
1.25 GRY
B
Weld splice 11
Side Market RH
Door Lock Relay
Keyless Entry Control unit
Front Position Light RH
Front Turn Light RH
Transmission Control Module (TCM)
Mimamori C/U
2 D-43
1
4 B-227
5 B-351
2 B-71
2 B-73
8
17 B-229
5 B-402
0.5 BLK
5 H-87
0.5 GRY
2BLK
D
Weld splice 13
LNWH80XF005001

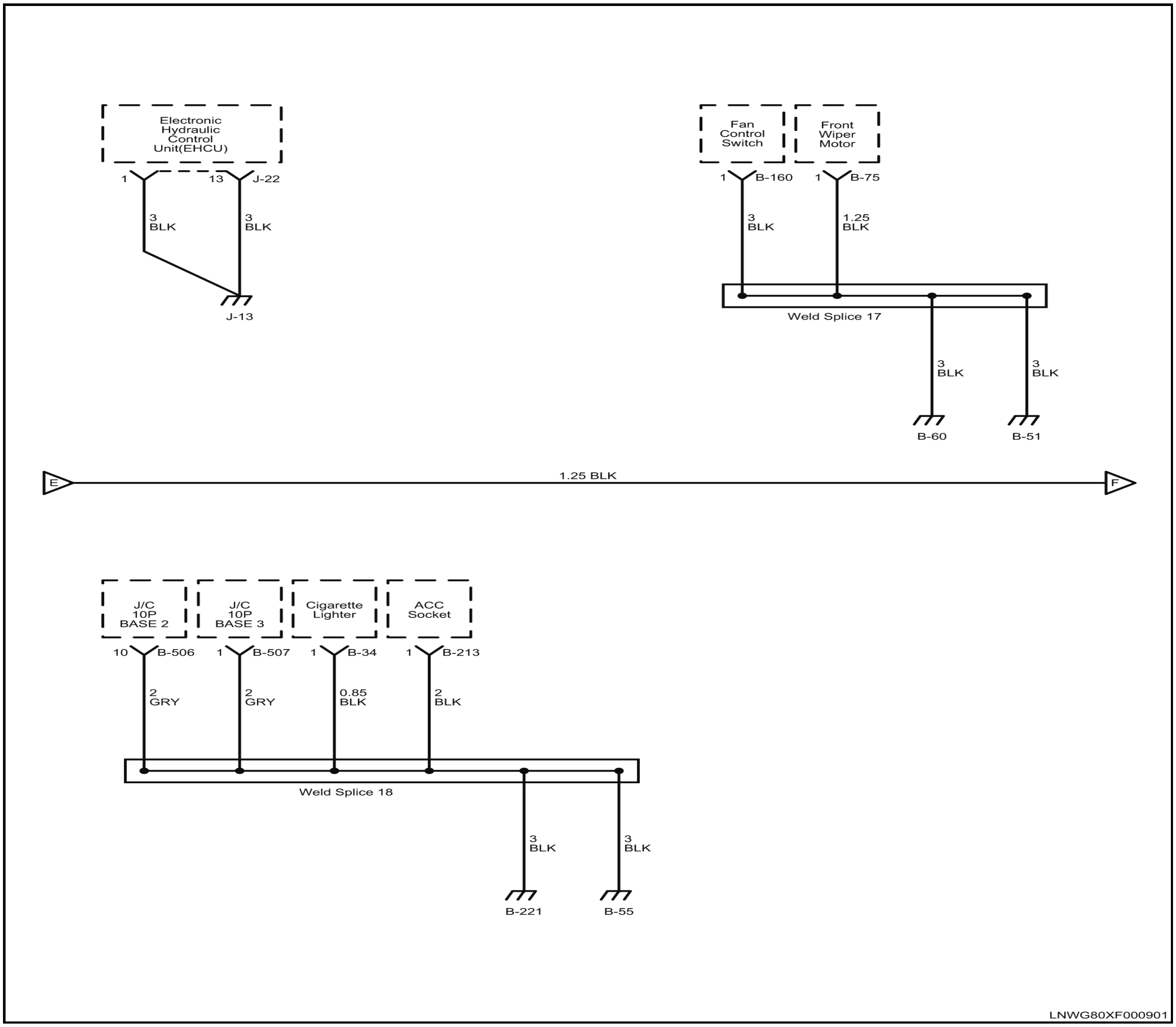
4709104


DRL Control Unit
Mirror Heater RH
Electrical Trailer Brake Controller
Upfitter Install
Rear Power Window Switch RH
Headlight RH
4 B-225
2 D-42
8
7
1 B-175
3 B-81
0.5 BLK
0.85 BLK
1 H-87
1 B-412
0.5 BLK
0.5 BLK
0.85 BLK
1.25 BLK
1.25 BLK
1.25 BLK
1.25 BLK
1
2
3
5
7
8
9
C
3 BLK
4
6
D
2 BLK
B-48 Earth Joint 10P1
10
5 BLK
3 BLK
B-59
B-54
B-53
LNWG80XF010601

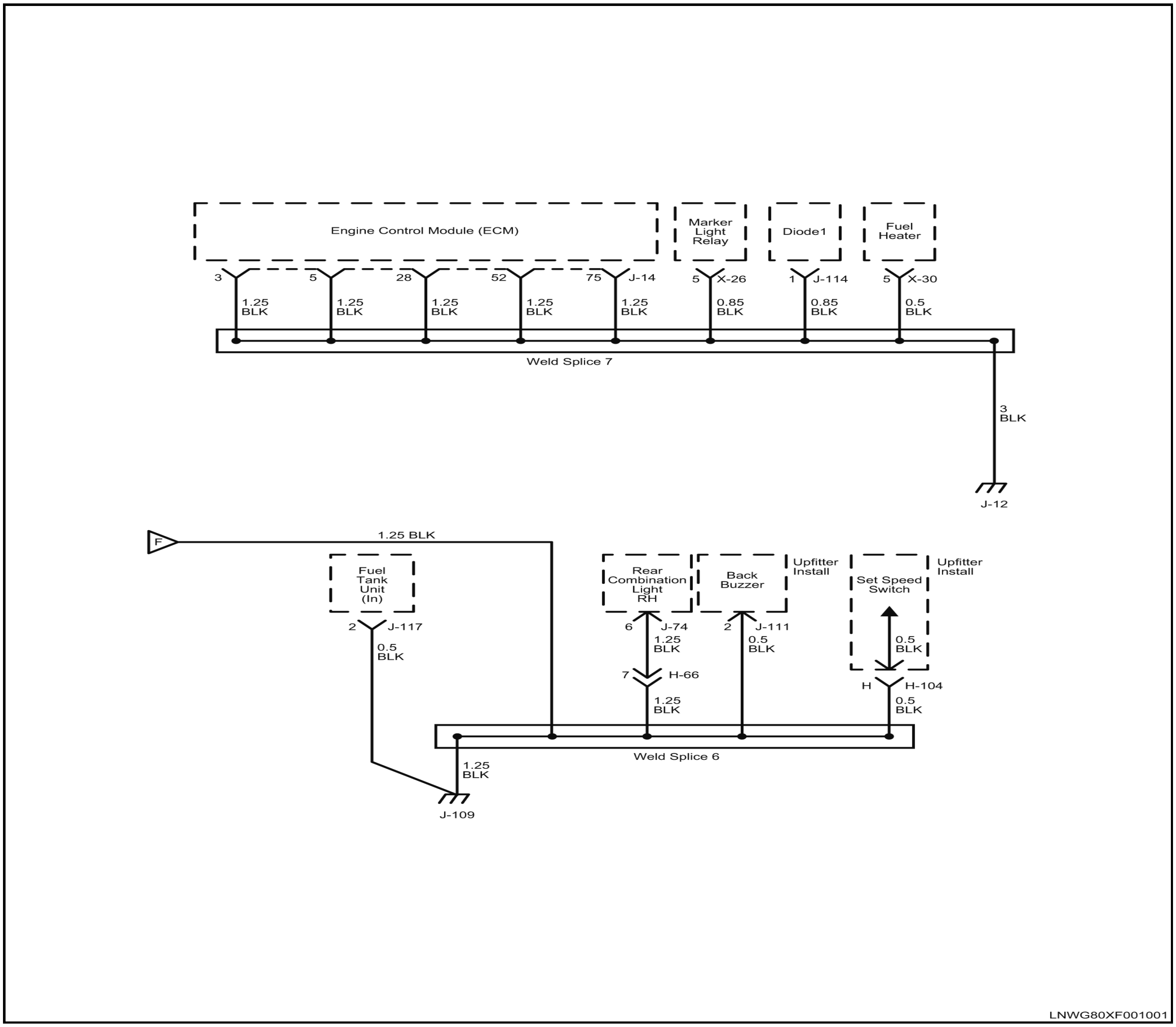
4500040


Upfitter Install
Towing Converter
Condenser Fan Motor
Triple Pressure Switch
Brake Fluid Level Switch (HBB)
Inhibitor Relay
Air Cleaner Switch
Fuel Sedi-menter Switch
Rear Manufacture Connector
1 J-4
2 J-55
2 J-106
2 J-147
1 J-138
D J-118
(C-Cab)
0.5 BLK
2 H-96
6 J-122
5 H-172
E
0.85 BLK
0.85 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
0.5 BLK
1.25 BLK
26 H-101
2 BLK
Weld Splice 4
2 BLK
25 H-101
2 BLK
3 BLK
3 BLK
5 BLK
3 BLK
J-7
J-9
J-110
J-8
LNWH80XF010001

4709112

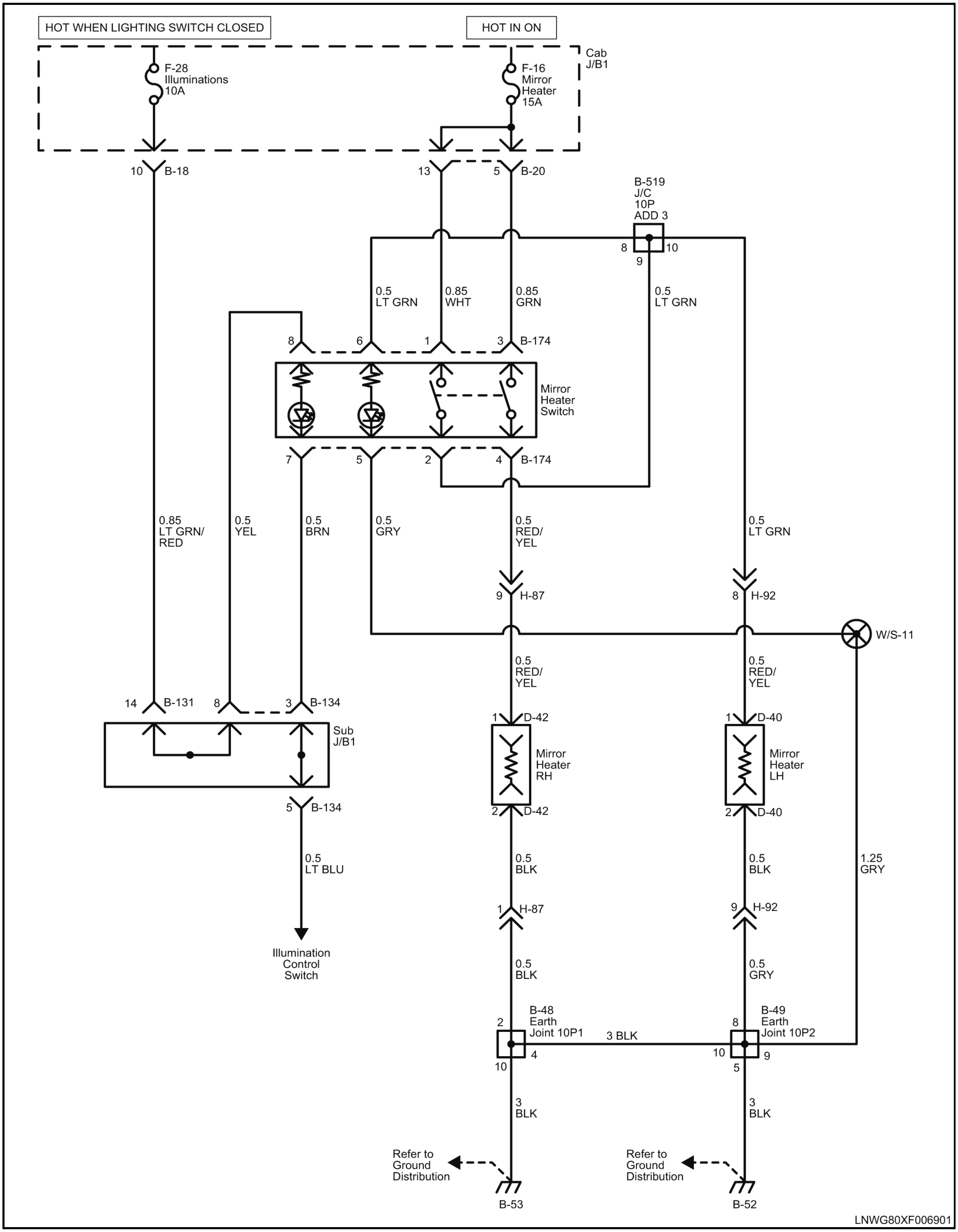

Electronic Hydraulic Control Unit(EHCU)
1
13
J-22
3 BLK
3 BLK
J-13
Fan Control Switch
Front Wiper Motor
1
B-160
1
B-75
3 BLK
1.25 BLK
Weld Splice 17
3 BLK
3 BLK
B-60
B-51
E
1.25 BLK
F
J/C 10P BASE 2
J/C 10P BASE 3
Cigarette Lighter
ACC Socket
10
B-506
1
B-507
1
B-34
1
B-213
2 GRY
2 GRY
0.85 BLK
2 BLK
Weld Splice 18
3 BLK
3 BLK
B-221
B-55
LNWG80XF000901

4496077


Engine Control Module (ECM)
Marker Light Relay
Diode1
Fuel Heater
3
5
28
52
75
J-14
5
X-26
1
J-114
5
X-30
1.25 BLK
0.85 BLK
0.5 BLK
Weld Splice 7
3 BLK
J-12
F
1.25 BLK
Fuel Tank Unit (In)
2
J-117
0.5 BLK
Rear Combination Light RH
Back Buzzer
Upfitter Install
Set Speed Switch
Upfitter Install
6
J-74
1.25 BLK
7
H-66
2
J-111
0.5 BLK
H
H-104
Weld Splice 6
1.25 BLK
J-109
LNWG80XF001001

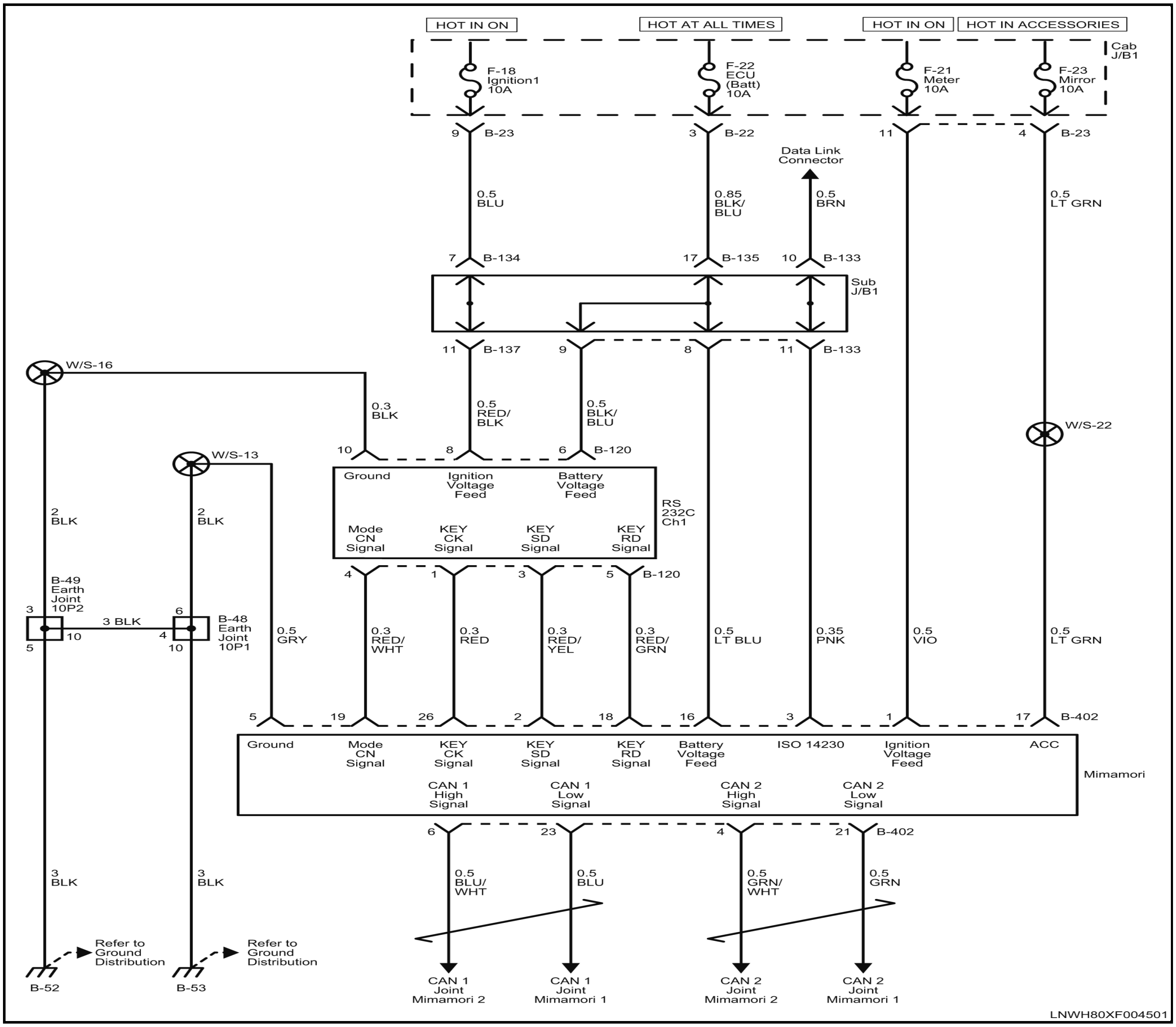
4496080

Heated Mirror Schematics


HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ON
Cab J/B1
F-28 Illuminations 10A
F-16 Mirror Heater 15A
10 B-18
13
5 B-20
B-519 J/C 10P ADD 3
8
10
9
0.5 LT GRN
0.85 WHT
0.85 GRN
0.5 LT GRN
8
6
1
3 B-174
Mirror Heater Switch
7
5
2
4 B-174
0.85 LT GRN/ RED
0.5 YEL
0.5 BRN
0.5 GRY
0.5 RED/ YEL
0.5 LT GRN
9 H-87
8 H-92
W/S-11
0.5 RED/ YEL
0.5 RED/ YEL
14 B-131
8
3 B-134
Sub J/B1
1 D-42
Mirror Heater RH
2 D-42
1 D-40
Mirror Heater LH
2 D-40
5 B-134
0.5 LT BLU
Illumination Control Switch
0.5 BLK
0.5 BLK
1.25 GRY
1 H-87
9 H-92
0.5 BLK
0.5 GRY
B-48 Earth Joint 10P1
2
4
10
3 BLK
B-49 Earth Joint 10P2
8
10
9
5
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
LNWG80XF006901

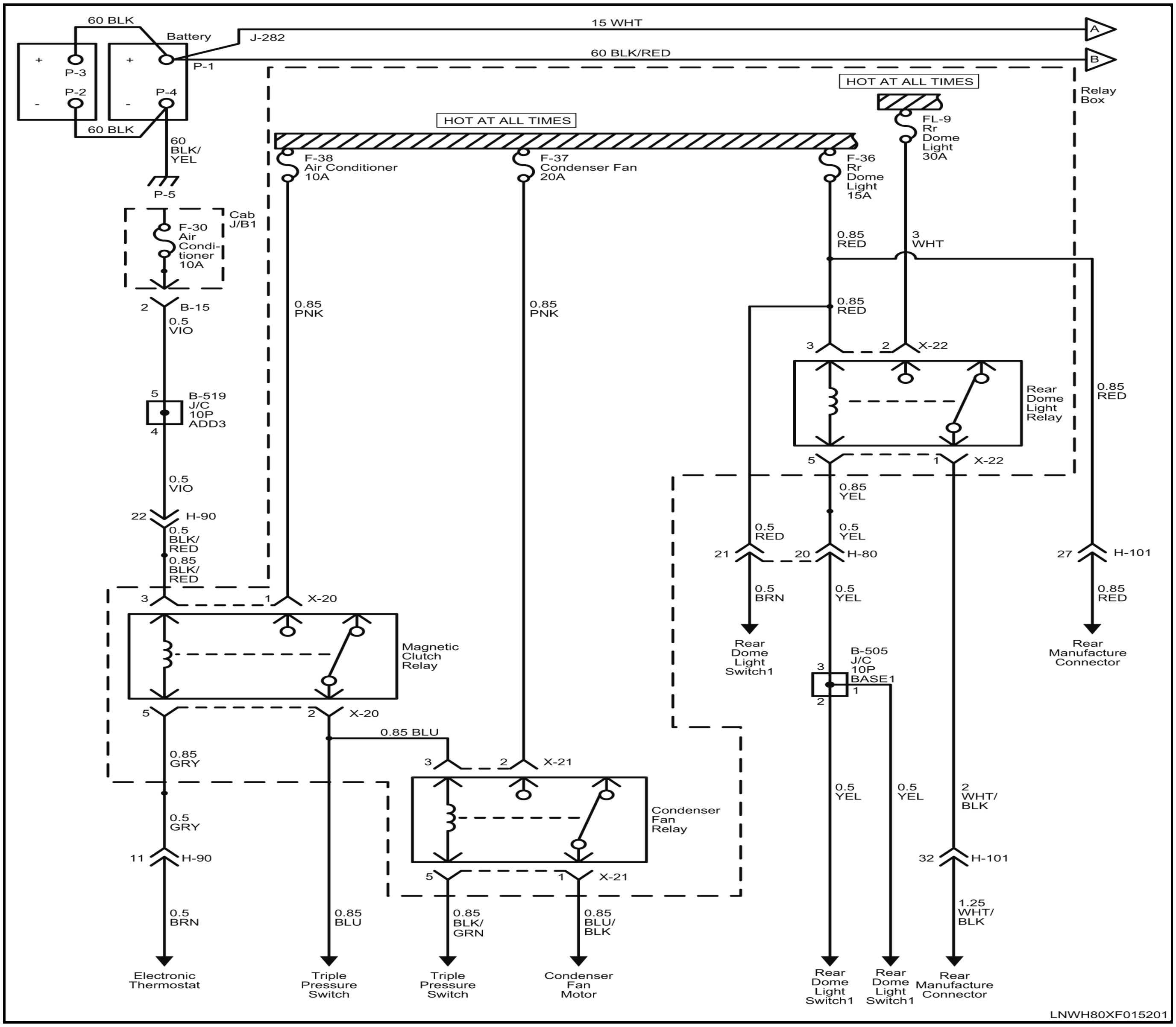
4497029

MIMAMORI Schematics

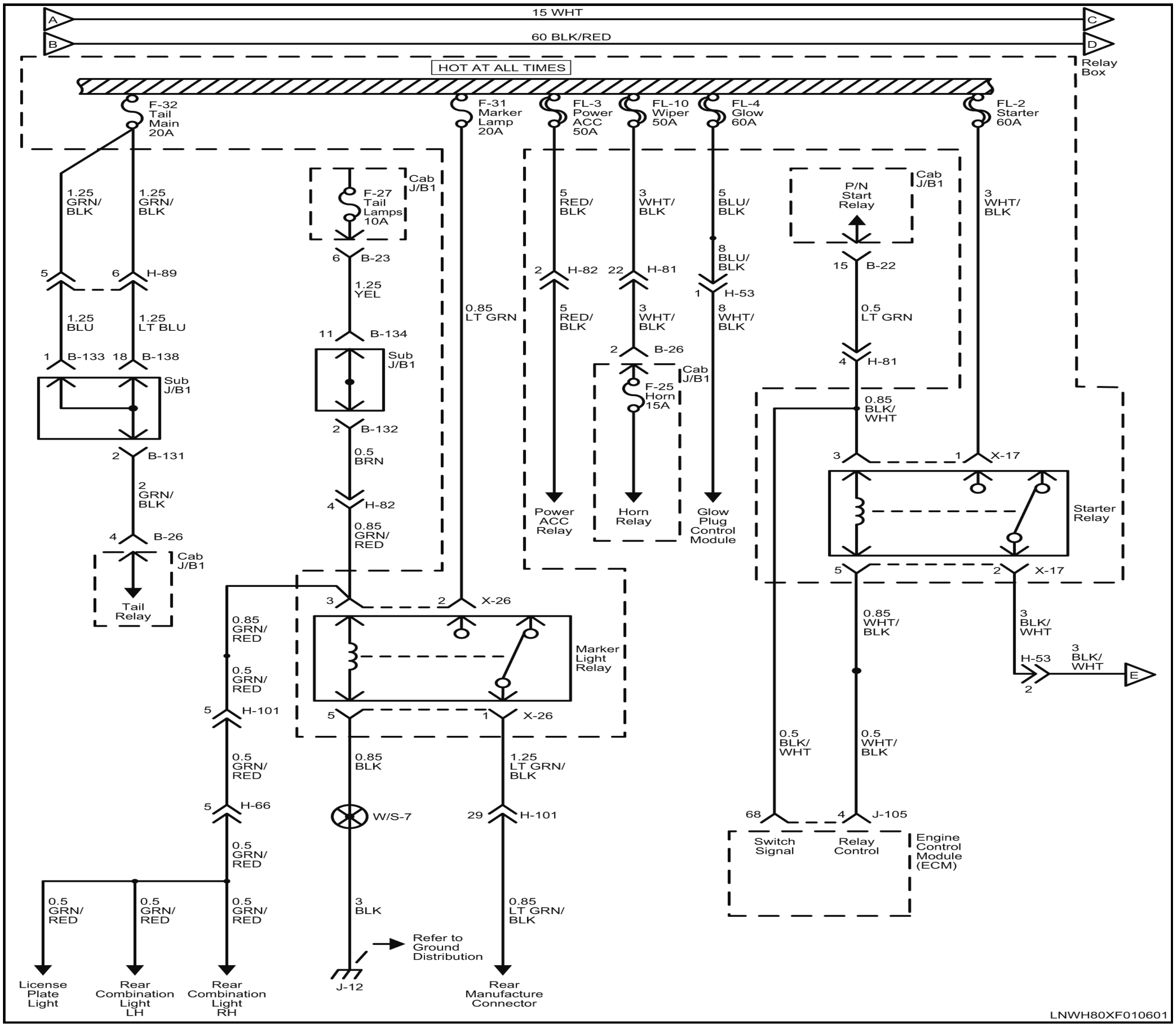

HOT IN ON
HOT AT ALL TIMES
HOT IN ON
HOT IN ACCESSORIES
Cab J/B1
F-18 Ignition1 10A
F-22 ECU (Batt) 10A
F-21 Meter 10A
F-23 Mirror 10A
9 B-23
3 B-22
11
4 B-23
Data Link Connector
0.5 BLU
0.85 BLK/ BLU
0.5 BRN
0.5 LT GRN
7 B-134
17 B-135
10 B-133
Sub J/B1
11 B-137
9
8
11 B-133
W/S-16
0.3 BLK
0.5 RED/ BLK
0.5 BLK/ BLU
W/S-22
10
8
6 B-120
W/S-13
Ground
Ignition Voltage Feed
Battery Voltage Feed
RS 232C Ch1
2 BLK
2 BLK
Mode CN Signal
KEY CK Signal
KEY SD Signal
KEY RD Signal
4
1
3
5 B-120
B-49 Earth Joint 10P2
3
3 BLK
6
B-48 Earth Joint 10P1
5
10
4
10
0.5 GRY
0.3 RED/ WHT
0.3 RED
0.3 RED/ YEL
0.3 RED/ GRN
0.5 LT BLU
0.35 PNK
0.5 VIO
0.5 LT GRN
5
19
26
2
18
16
3
1
17 B-402
Ground
Mode CN Signal
KEY CK Signal
KEY SD Signal
KEY RD Signal
Battery Voltage Feed
ISO 14230
Ignition Voltage Feed
ACC
Mimamori
CAN 1 High Signal
CAN 1 Low Signal
CAN 2 High Signal
CAN 2 Low Signal
6
23
4
21 B-402
3 BLK
3 BLK
0.5 BLU/ WHT
0.5 BLU
0.5 GRN/ WHT
0.5 GRN
Refer to Ground Distribution
Refer to Ground Distribution
B-52
B-53
CAN 1 Joint Mimamori 2
CAN 1 Joint Mimamori 1
CAN 2 Joint Mimamori 2
CAN 2 Joint Mimamori 1
LNWH80XF004501

4710710

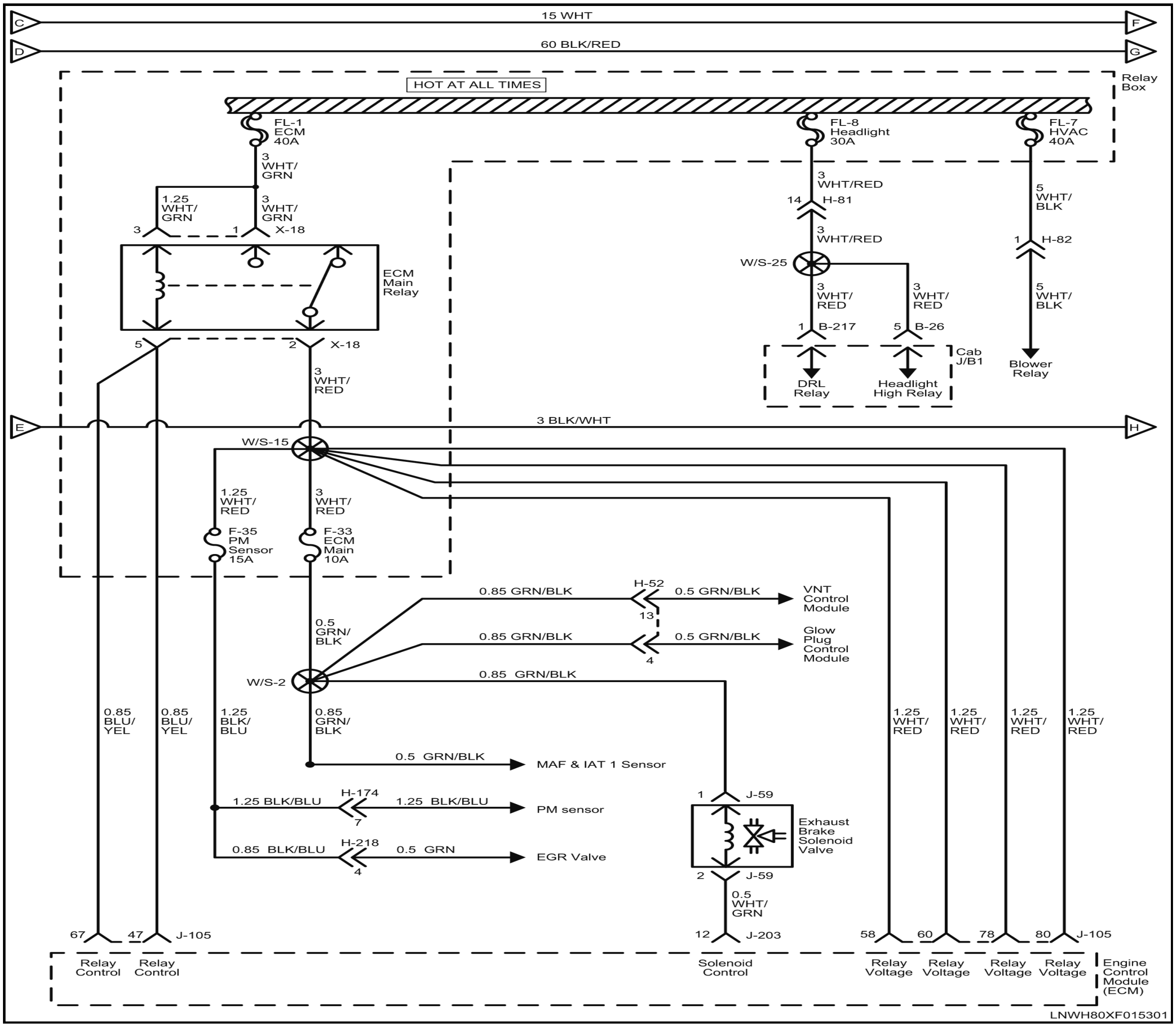
Power Distribution Schematics (Chassis)


60 BLK
Battery
J-282
15 WHT
A
60 BLK/RED
B
+
P-3
P-2
-
+
P-1
P-4
-
60 BLK
60 BLK/ YEL
P-5
Relay Box
HOT AT ALL TIMES
FL-9 Rr Dome Light 30A
HOT AT ALL TIMES
F-38 Air Conditioner 10A
F-37 Condenser Fan 20A
F-36 Rr Dome Light 15A
Cab J/B1
F-30 Air Condi- tioner 10A
0.85 RED
3 WHT
2
B-15
0.5 VIO
0.85 PNK
0.85 PNK
0.85 RED
3
2
X-22
Rear Dome Light Relay
0.85 RED
5
B-519 J/C 10P ADD3
4
5
1
X-22
0.5 VIO
0.85 YEL
22
H-90
0.5 BLK/ RED
0.85 BLK/ RED
0.5 RED
0.5 YEL
21
20
H-80
27
H-101
3
1
X-20
0.5 BRN
0.5 YEL
0.85 RED
Magnetic Clutch Relay
Rear Dome Light Switch1
B-505 J/C 10P BASE1
3
1
2
Rear Manufacture Connector
5
2
X-20
0.85 BLU
0.85 GRY
3
2
X-21
Condenser Fan Relay
0.5 YEL
0.5 YEL
2 WHT/ BLK
0.5 GRY
11
H-90
32
H-101
5
1
X-21
0.5 BRN
0.85 BLU
0.85 BLK/ GRN
0.85 BLU/ BLK
1.25 WHT/ BLK
Electronic Thermostat
Triple Pressure Switch
Triple Pressure Switch
Condenser Fan Motor
Rear Dome Light Switch1
Rear Dome Light Switch1
Rear Manufacture Connector
LNWH80XF015201

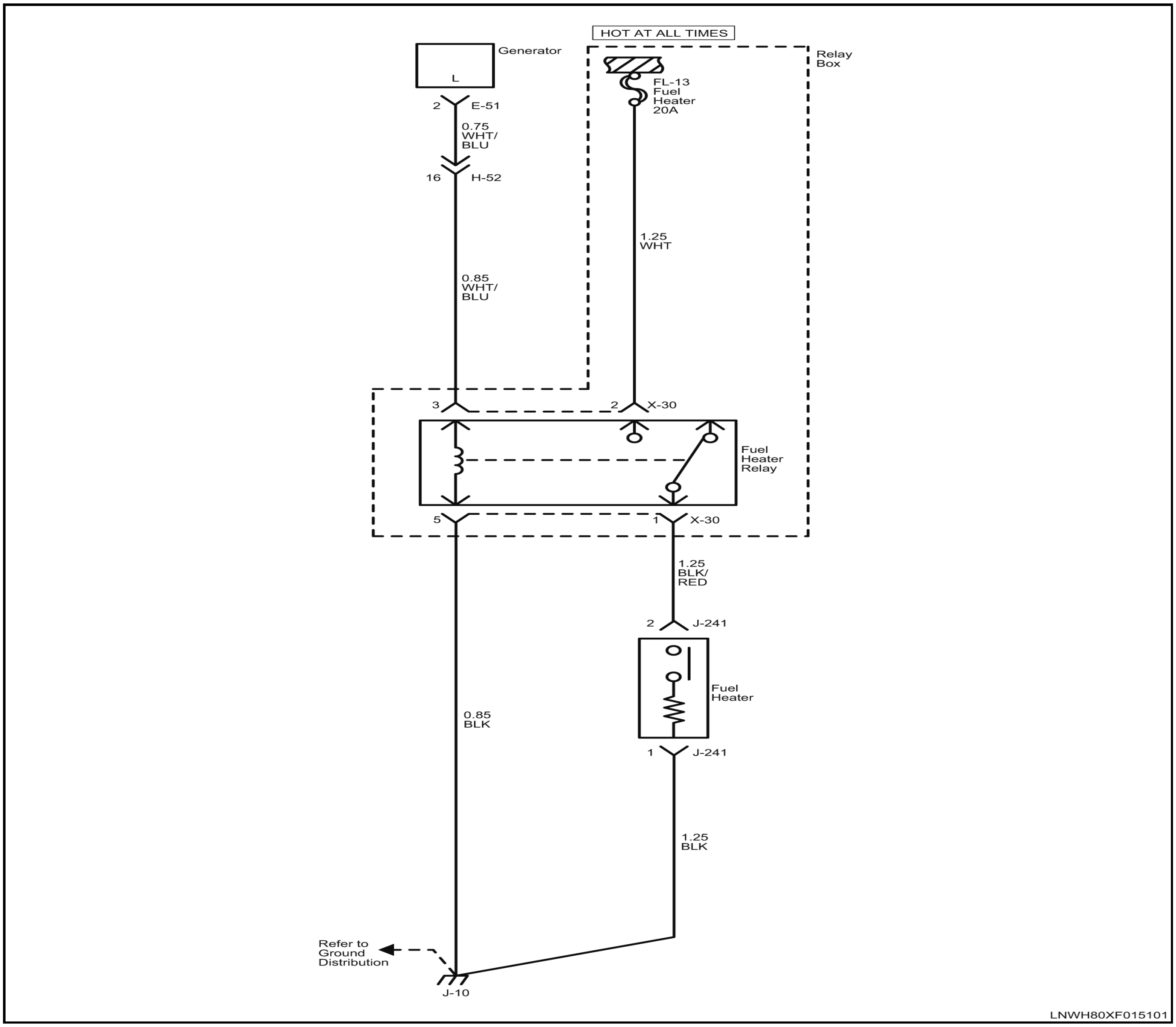
4709363


A
B
C
D
E
15 WHT
60 BLK/RED
Relay Box
HOT AT ALL TIMES
F-32 Tail Main 20A
F-31 Marker Lamp 20A
FL-3 Power ACC 50A
FL-10 Wiper 50A
FL-4 Glow 60A
FL-2 Starter 60A
F-27 Tail Lamps 10A
Cab J/B1
P/N Start Relay
F-25 Horn 15A
Sub J/B1
Tail Relay
Power ACC Relay
Horn Relay
Glow Plug Control Module
Starter Relay
Marker Light Relay
License Plate Light
Rear Combination Light LH
Rear Combination Light RH
Rear Manufacture Connector
Refer to Ground Distribution
J-12
W/S-7
Engine Control Module (ECM)
Switch Signal
Relay Control
1.25 GRN/BLK
1.25 BLU
1.25 LT BLU
2 GRN/BLK
1.25 YEL
0.5 BRN
0.85 GRN/RED
0.5 GRN/RED
0.85 LT GRN
0.85 BLK
3 BLK
1.25 LT GRN/BLK
0.85 LT GRN/BLK
5 RED/BLK
3 WHT/BLK
5 BLU/BLK
8 BLU/BLK
8 WHT/BLK
0.5 LT GRN
0.85 BLK/WHT
0.85 WHT/BLK
0.5 BLK/WHT
0.5 WHT/BLK
3 BLK/WHT
B-23
B-134
B-132
B-133
B-138
B-131
B-26
B-22
H-89
H-82
H-81
H-53
H-101
H-66
X-26
X-17
J-105
LNWH80XF010601

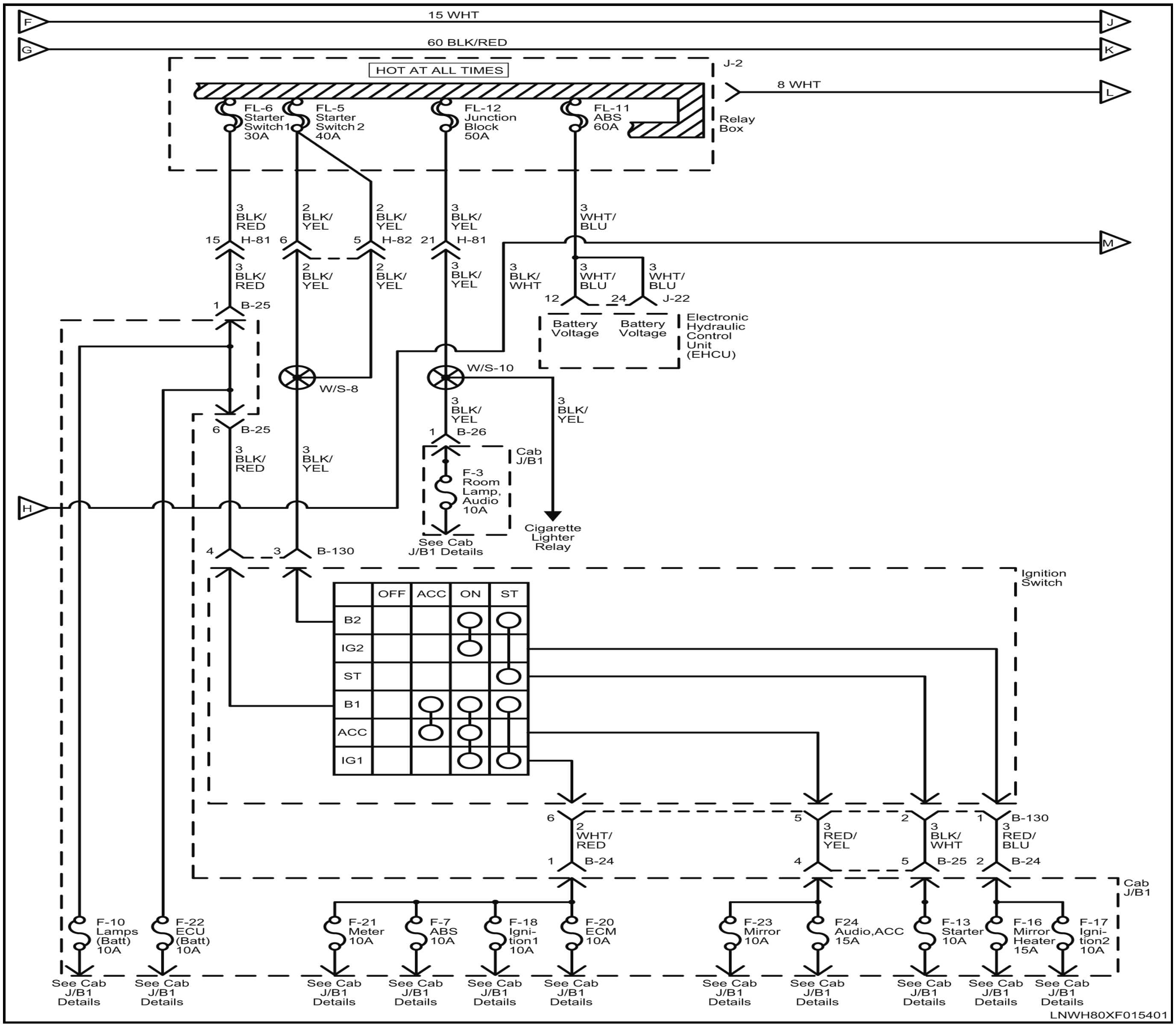
4709389


C
15 WHT
F
D
60 BLK/RED
G
HOT AT ALL TIMES
Relay Box
FL-1 ECM 40A
FL-8 Headlight 30A
FL-7 HVAC 40A
3 WHT/GRN
1.25 WHT/GRN
3 WHT/GRN
3
1
X-18
ECM Main Relay
5
2
X-18
3 WHT/RED
14
H-81
3 WHT/RED
W/S-25
3 WHT/RED
3 WHT/RED
1
B-217
5
B-26
Cab J/B1
DRL Relay
Headlight High Relay
5 WHT/BLK
1
H-82
5 WHT/BLK
Blower Relay
E
3 BLK/WHT
H
W/S-15
1.25 WHT/RED
3 WHT/RED
F-35 PM Sensor 15A
F-33 ECM Main 10A
0.85 GRN/BLK
H-52
0.5 GRN/BLK
VNT Control Module
13
0.5 GRN/BLK
0.85 GRN/BLK
0.5 GRN/BLK
Glow Plug Control Module
4
W/S-2
0.85 GRN/BLK
0.85 BLU/YEL
0.85 BLU/YEL
1.25 BLK/BLU
0.85 GRN/BLK
1.25 WHT/RED
1.25 WHT/RED
1.25 WHT/RED
1.25 WHT/RED
0.5 GRN/BLK
MAF & IAT 1 Sensor
1.25 BLK/BLU
H-174
1.25 BLK/BLU
PM sensor
7
0.85 BLK/BLU
H-218
0.5 GRN
EGR Valve
4
1
J-59
Exhaust Brake Solenoid Valve
2
J-59
0.5 WHT/GRN
67
47
J-105
12
J-203
58
60
78
80
J-105
Relay Control
Relay Control
Solenoid Control
Relay Voltage
Relay Voltage
Relay Voltage
Relay Voltage
Engine Control Module (ECM)
LNWH80XF015301

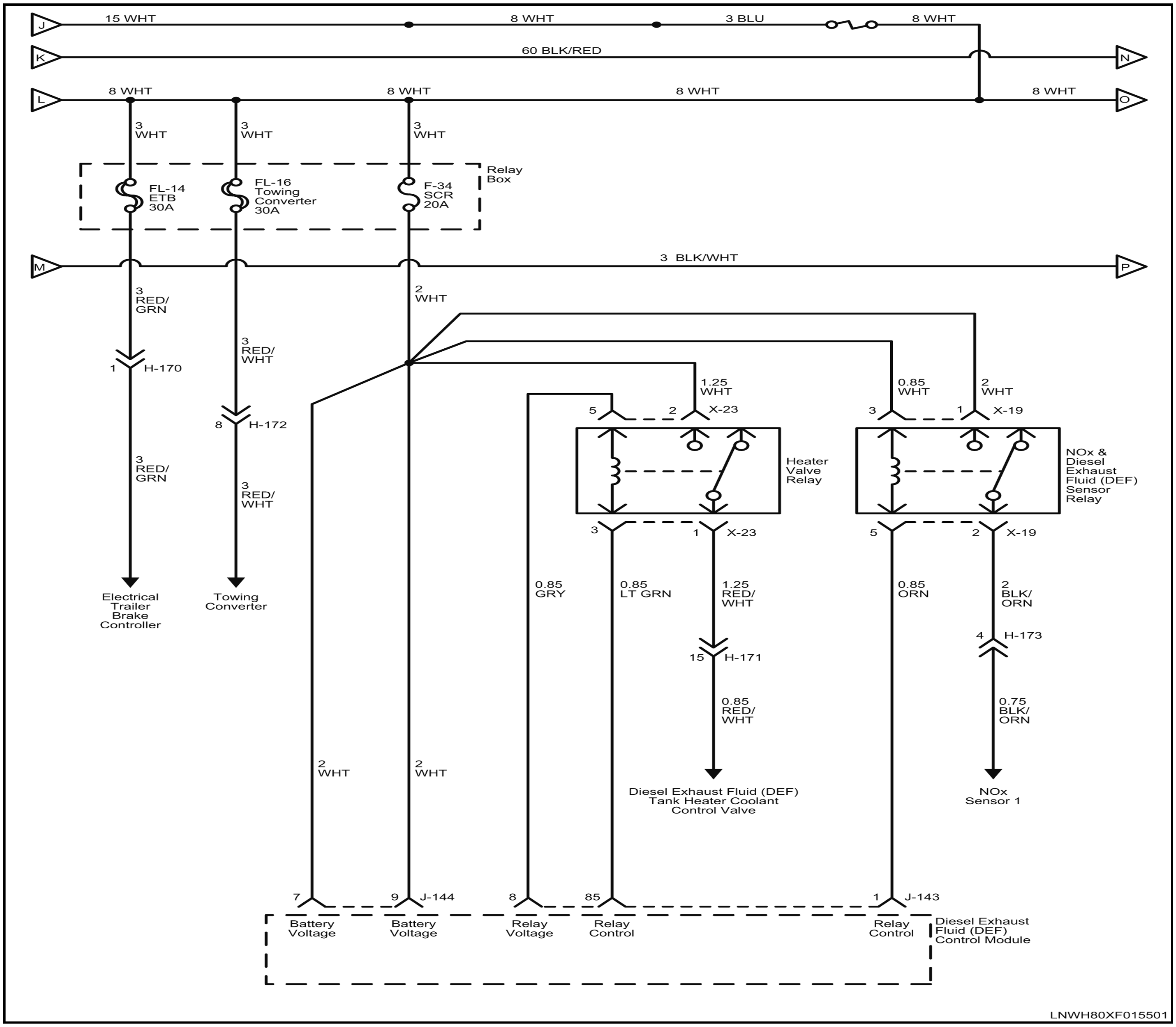
4709423


HOT AT ALL TIMES
Generator
L
Relay Box
FL-13 Fuel Heater 20A
2 E-51
0.75 WHT/ BLU
16 H-52
1.25 WHT
0.85 WHT/ BLU
3
2 X-30
Fuel Heater Relay
5
1 X-30
1.25 BLK/ RED
2 J-241
Fuel Heater
1 J-241
0.85 BLK
1.25 BLK
Refer to Ground Distribution
J-10
LNWH80XF015101

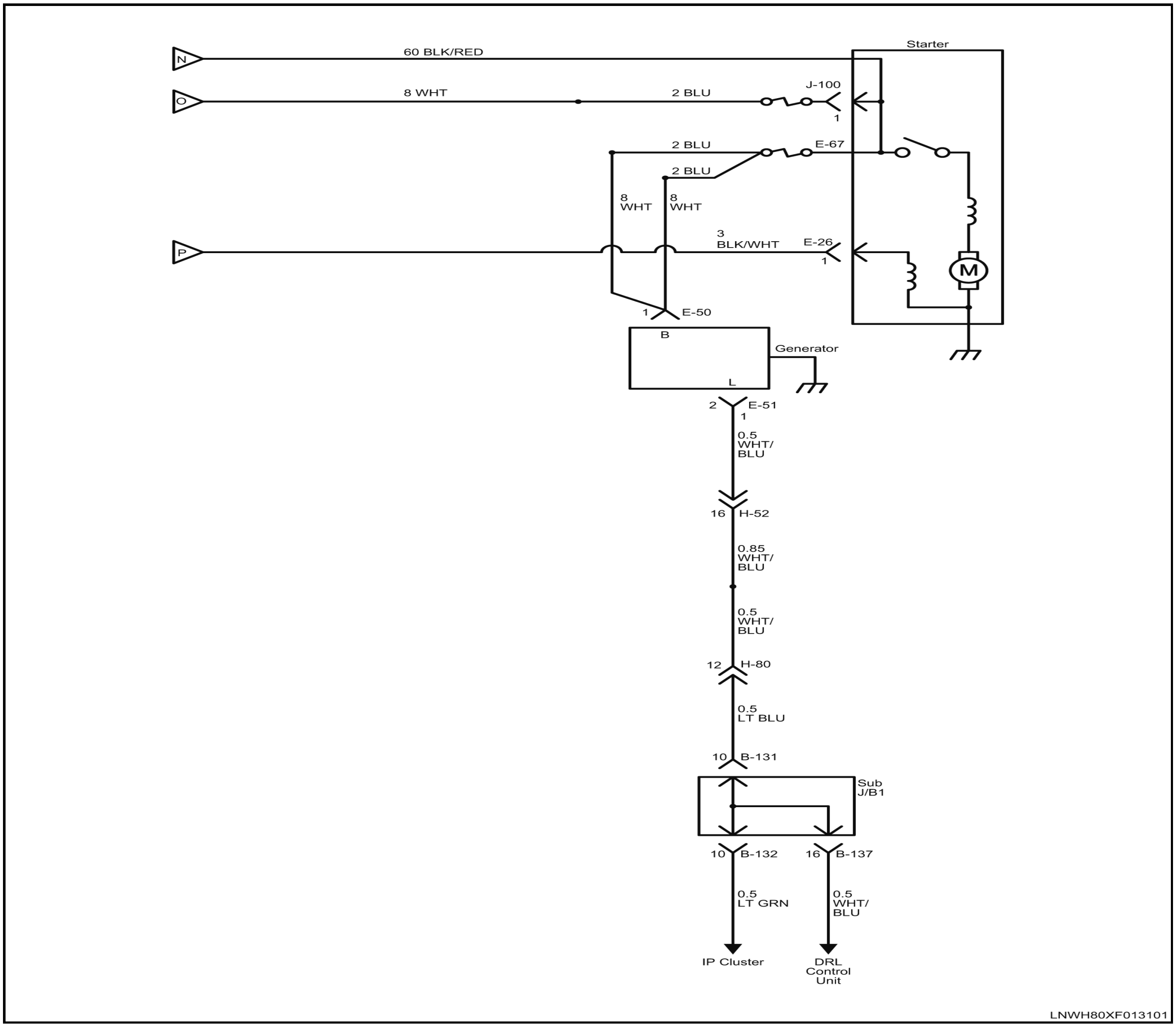
4709450


F
15 WHT
J
G
60 BLK/RED
K
HOT AT ALL TIMES
J-2
8 WHT
L
FL-6 Starter Switch1 30A
FL-5 Starter Switch 2 40A
FL-12 Junction Block 50A
FL-11 ABS 60A
Relay Box
3 BLK/RED
2 BLK/YEL
2 BLK/YEL
3 BLK/YEL
3 WHT/BLU
15 H-81
6
5 H-82
21 H-81
M
3 BLK/RED
2 BLK/YEL
2 BLK/YEL
3 BLK/YEL
3 BLK/WHT
3 WHT/BLU
3 WHT/BLU
12
24 J-22
Battery Voltage
Battery Voltage
Electronic Hydraulic Control Unit (EHCU)
1 B-25
W/S-8
W/S-10
3 BLK/YEL
3 BLK/YEL
1 B-26
Cab J/B1
F-3 Room Lamp, Audio 10A
6 B-25
3 BLK/RED
3 BLK/YEL
H
See Cab J/B1 Details
Cigarette Lighter Relay
4
3 B-130
Ignition Switch
OFF
ACC
ON
ST
B2
IG2
ST
B1
ACC
IG1
6
2 WHT/RED
1 B-24
5
3 RED/YEL
4
2
3 BLK/WHT
5 B-25
1 B-130
3 RED/BLU
2 B-24
Cab J/B1
F-10 Lamps (Batt) 10A
F-22 ECU (Batt) 10A
F-21 Meter 10A
F-7 ABS 10A
F-18 Igni-tion1 10A
F-20 ECM 10A
F-23 Mirror 10A
F24 Audio,ACC 15A
F-13 Starter 10A
F-16 Mirror Heater 15A
F-17 Igni-tion2 10A
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
See Cab J/B1 Details
LNWH80XF015401

4709462

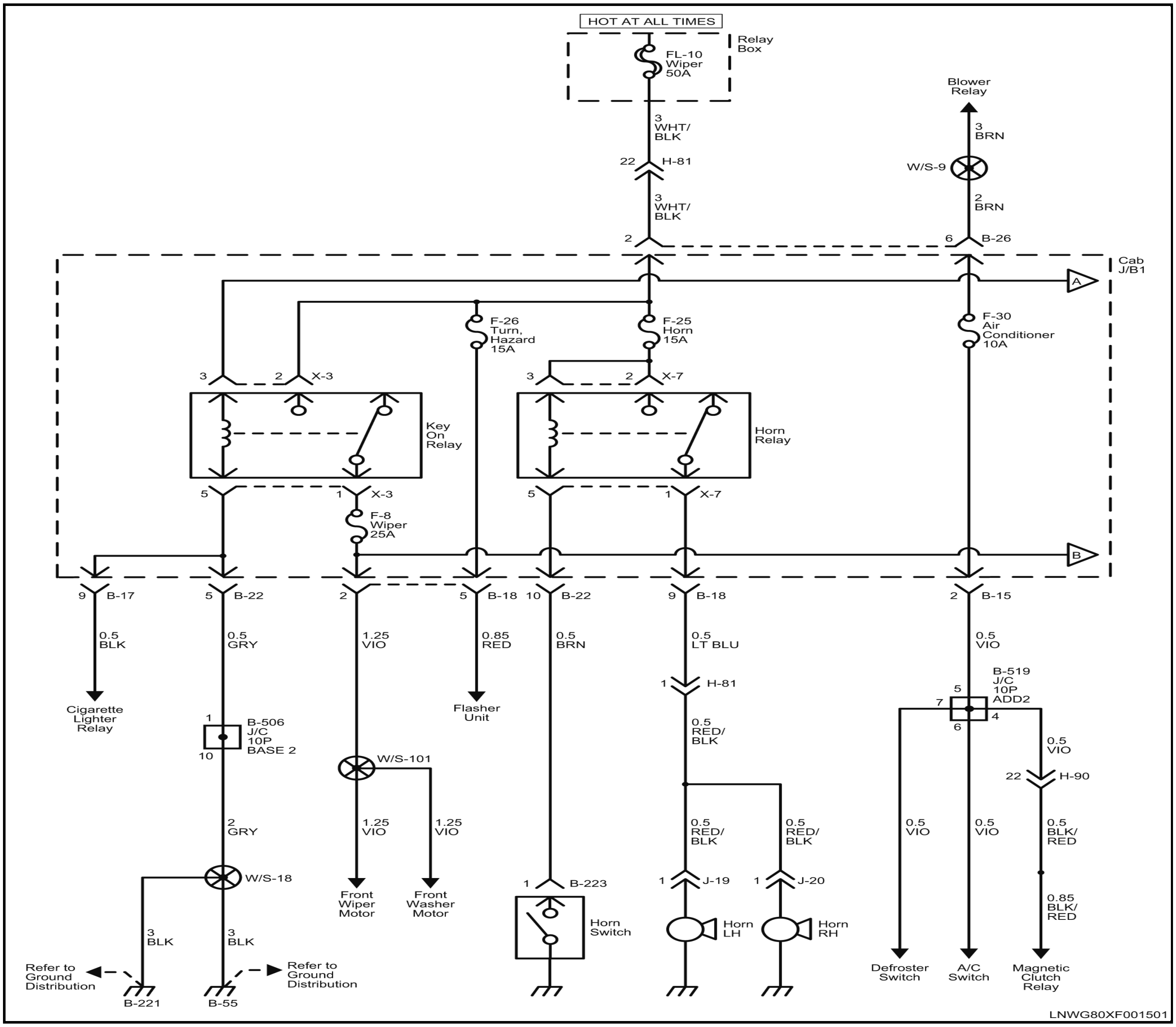

J
15 WHT
8 WHT
3 BLU
8 WHT
K
60 BLK/RED
N
L
8 WHT
8 WHT
8 WHT
8 WHT
O
3 WHT
3 WHT
3 WHT
FL-14 ETB 30A
FL-16 Towing Converter 30A
F-34 SCR 20A
Relay Box
M
3 BLK/WHT
P
3 RED/GRN
2 WHT
1 H-170
3 RED/WHT
8 H-172
3 RED/GRN
3 RED/WHT
Electrical Trailer Brake Controller
Towing Converter
1.25 WHT
0.85 WHT
2 WHT
5
2
X-23
3
1
X-19
Heater Valve Relay
NOx & Diesel Exhaust Fluid (DEF) Sensor Relay
3
1
X-23
5
2
X-19
0.85 GRY
0.85 LT GRN
1.25 RED/WHT
0.85 ORN
2 BLK/ORN
15 H-171
4 H-173
0.85 RED/WHT
0.75 BLK/ORN
2 WHT
2 WHT
Diesel Exhaust Fluid (DEF) Tank Heater Coolant Control Valve
NOx Sensor 1
7
9
J-144
8
85
1
J-143
Battery Voltage
Battery Voltage
Relay Voltage
Relay Control
Relay Control
Diesel Exhaust Fluid (DEF) Control Module
LNWH80XF015501

4709475

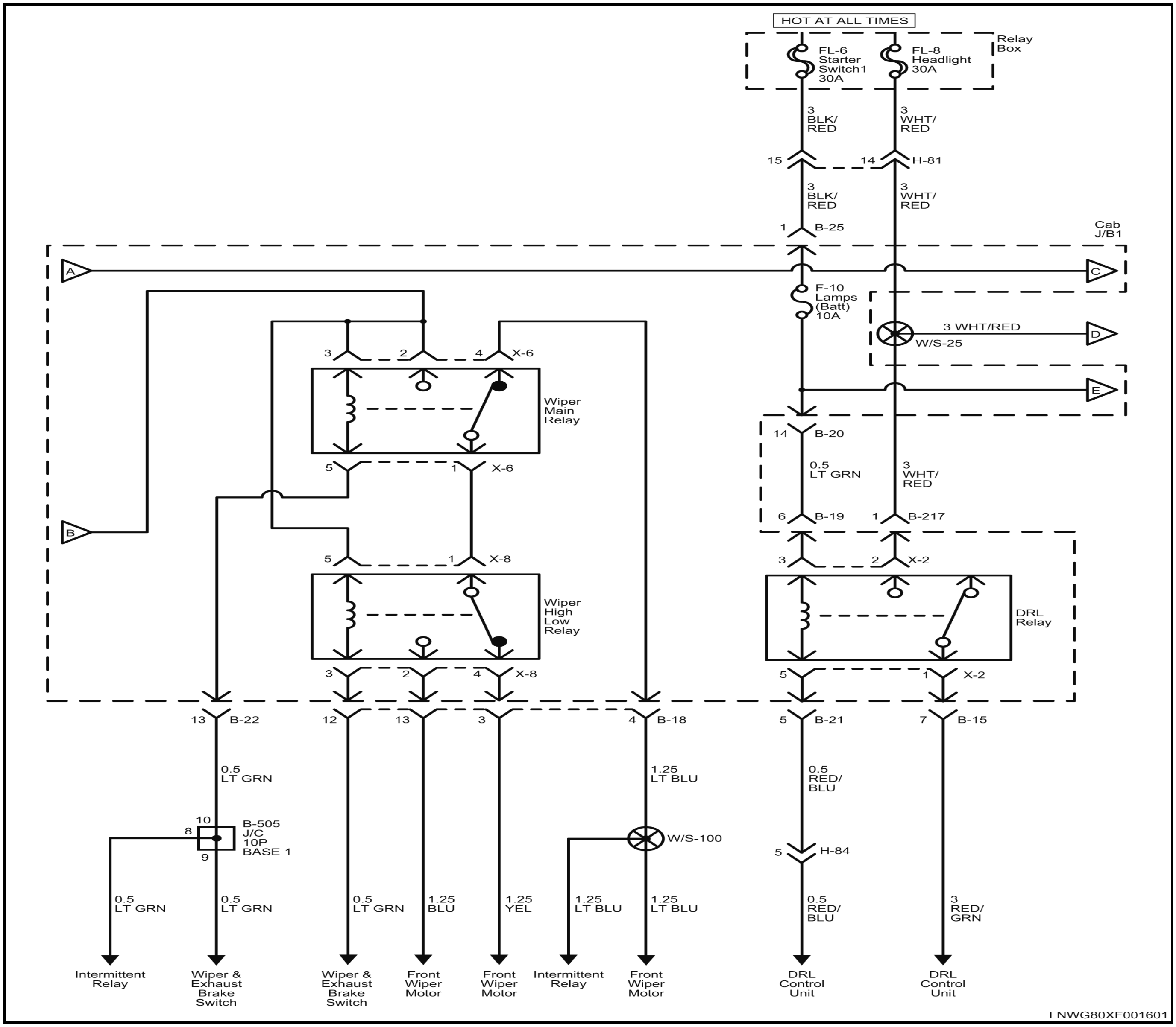

N
60 BLK/RED
Starter
O
8 WHT
2 BLU
J-100
1
2 BLU
E-67
2 BLU
8
WHT
8
WHT
3
BLK/WHT
E-26
1
P
M
1
E-50
B
Generator
L
2
E-51
1
0.5
WHT/
BLU
16
H-52
0.85
WHT/
BLU
0.5
WHT/
BLU
12
H-80
0.5
LT BLU
10
B-131
Sub
J/B1
10
B-132
16
B-137
0.5
LT GRN
0.5
WHT/
BLU
IP Cluster
DRL
Control
Unit
LNWH80XF013101

4709500

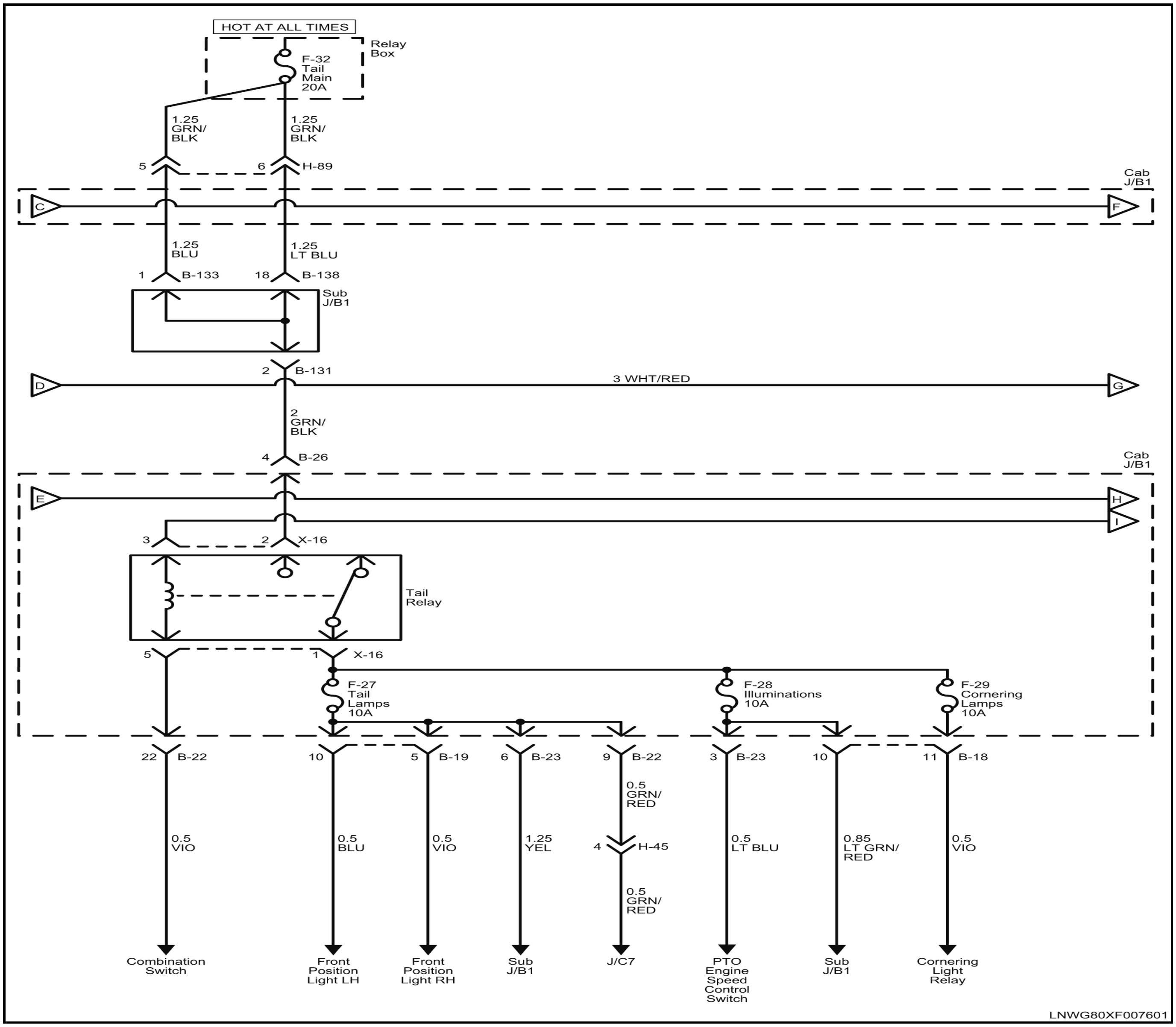
Power Distribution Schematics (Cabin)


HOT AT ALL TIMES
Relay Box
FL-10 Wiper 50A
3 WHT/ BLK
22 H-81
3 WHT/ BLK
2
Blower Relay
3 BRN
W/S-9
2 BRN
6 B-26
Cab J/B1
A
F-26 Turn, Hazard 15A
F-25 Horn 15A
F-30 Air Conditioner 10A
3
2 X-3
3
2 X-7
Key On Relay
Horn Relay
5
1 X-3
5
1 X-7
F-8 Wiper 25A
B
9 B-17
5 B-22
2
5 B-18
10 B-22
9 B-18
2 B-15
0.5 BLK
0.5 GRY
1.25 VIO
0.85 RED
0.5 BRN
0.5 LT BLU
0.5 VIO
1 H-81
B-519 J/C 10P ADD2
5
7
4
6
Cigarette Lighter Relay
Flasher Unit
1
B-506 J/C 10P BASE 2
10
W/S-101
0.5 RED/ BLK
0.5 VIO
22 H-90
2 GRY
1.25 VIO
1.25 VIO
0.5 RED/ BLK
0.5 RED/ BLK
0.5 VIO
0.5 VIO
0.5 BLK/ RED
W/S-18
Front Wiper Motor
Front Washer Motor
1 B-223
1 J-19
1 J-20
Horn Switch
Horn LH
Horn RH
0.85 BLK/ RED
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-221
B-55
Defroster Switch
A/C Switch
Magnetic Clutch Relay
LNWG80XF001501

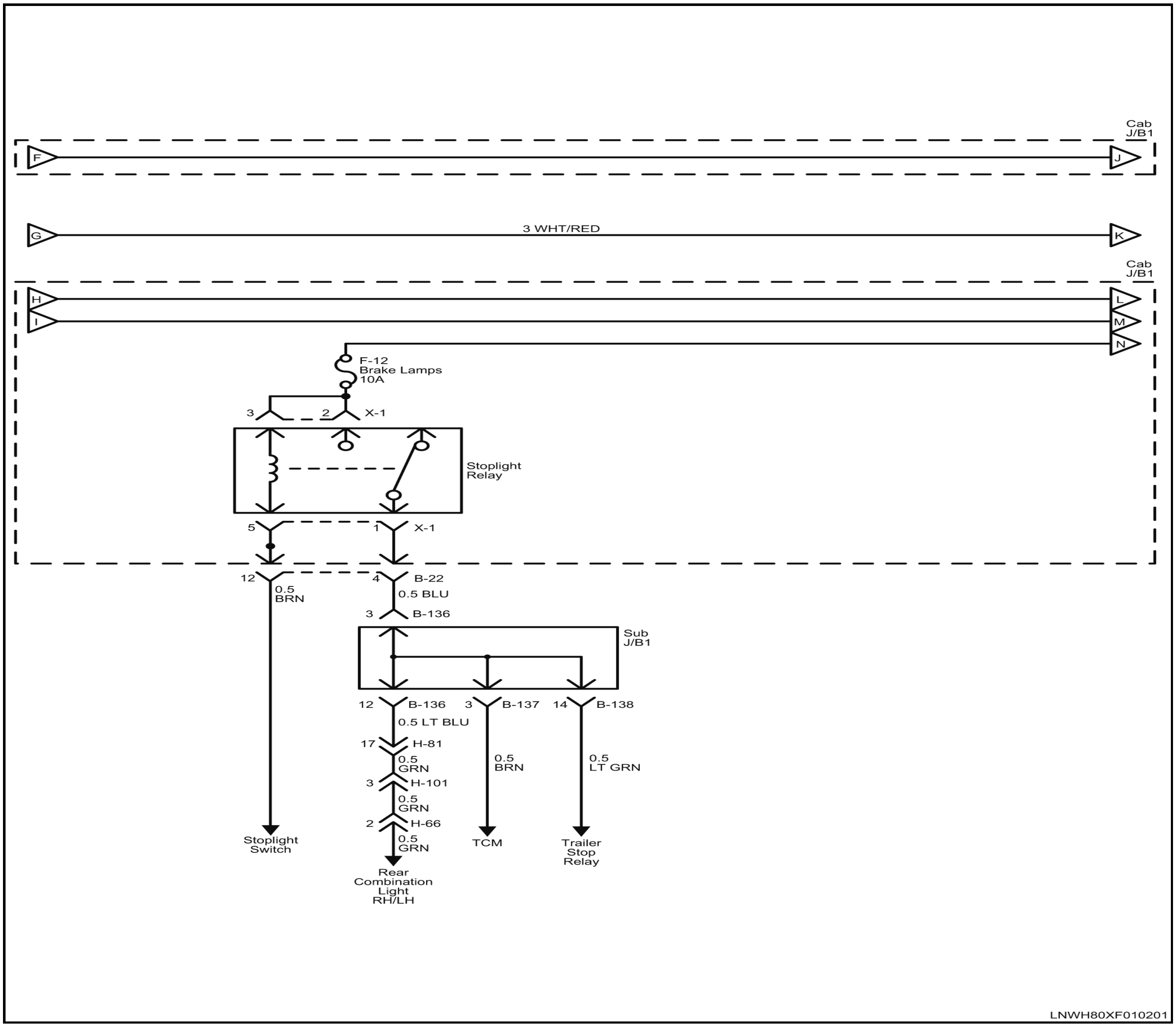
4496155


HOT AT ALL TIMES
Relay Box
FL-6 Starter Switch1 30A
FL-8 Headlight 30A
3 BLK/RED
3 WHT/RED
15
14
H-81
3 BLK/RED
3 WHT/RED
1
B-25
Cab J/B1
A
C
F-10 Lamps (Batt) 10A
3 WHT/RED
D
W/S-25
E
B
3
2
4
X-6
Wiper Main Relay
5
1
X-6
14
B-20
0.5 LT GRN
3 WHT/RED
6
B-19
1
B-217
5
1
X-8
3
2
X-2
Wiper High Low Relay
DRL Relay
3
2
4
X-8
5
1
X-2
13
B-22
12
13
3
4
B-18
5
B-21
7
B-15
0.5 LT GRN
1.25 LT BLU
0.5 RED/BLU
10
8
9
B-505 J/C 10P BASE 1
W/S-100
5
H-84
0.5 LT GRN
0.5 LT GRN
0.5 LT GRN
1.25 BLU
1.25 YEL
1.25 LT BLU
1.25 LT BLU
0.5 RED/BLU
3 RED/GRN
Intermittent Relay
Wiper & Exhaust Brake Switch
Wiper & Exhaust Brake Switch
Front Wiper Motor
Front Wiper Motor
Intermittent Relay
Front Wiper Motor
DRL Control Unit
DRL Control Unit
LNWG80XF001601

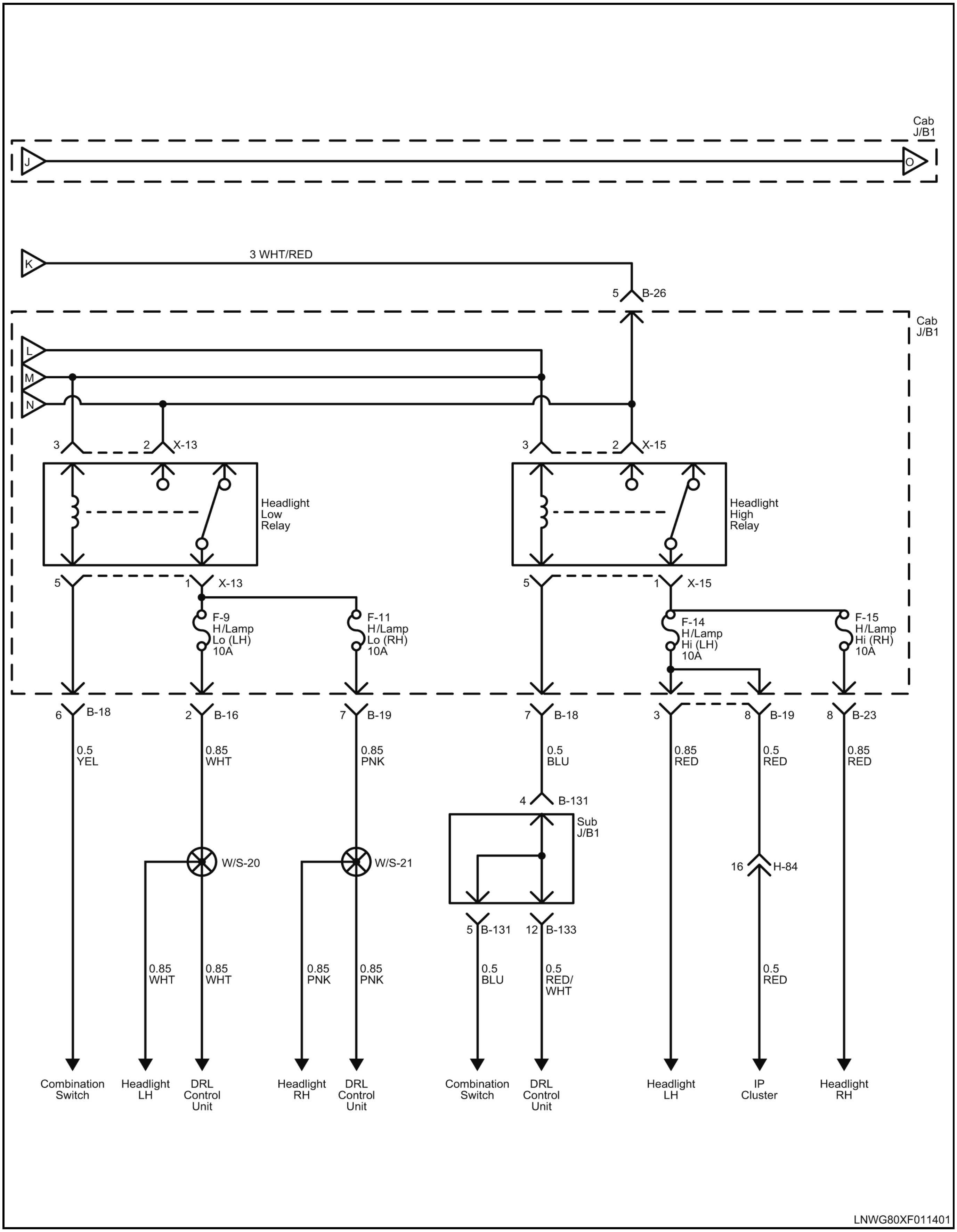
4496160


HOT AT ALL TIMES
Relay Box
F-32 Tail Main 20A
1.25 GRN/BLK
1.25 GRN/BLK
5
6
H-89
Cab J/B1
C
F
1.25 BLU
1.25 LT BLU
1
B-133
18
B-138
Sub J/B1
2
B-131
D
3 WHT/RED
G
2 GRN/BLK
4
B-26
Cab J/B1
E
H
I
3
2
X-16
Tail Relay
5
1
X-16
F-27 Tail Lamps 10A
F-28 Illuminations 10A
F-29 Cornering Lamps 10A
22
B-22
10
5
B-19
6
B-23
9
B-22
3
B-23
10
11
B-18
0.5 GRN/RED
4
H-45
0.5 GRN/RED
0.5 VIO
0.5 BLU
0.5 VIO
1.25 YEL
0.5 LT BLU
0.85 LT GRN/RED
0.5 VIO
Combination Switch
Front Position Light LH
Front Position Light RH
Sub J/B1
J/C7
PTO Engine Speed Control Switch
Sub J/B1
Cornering Light Relay
LNWG80XF007601

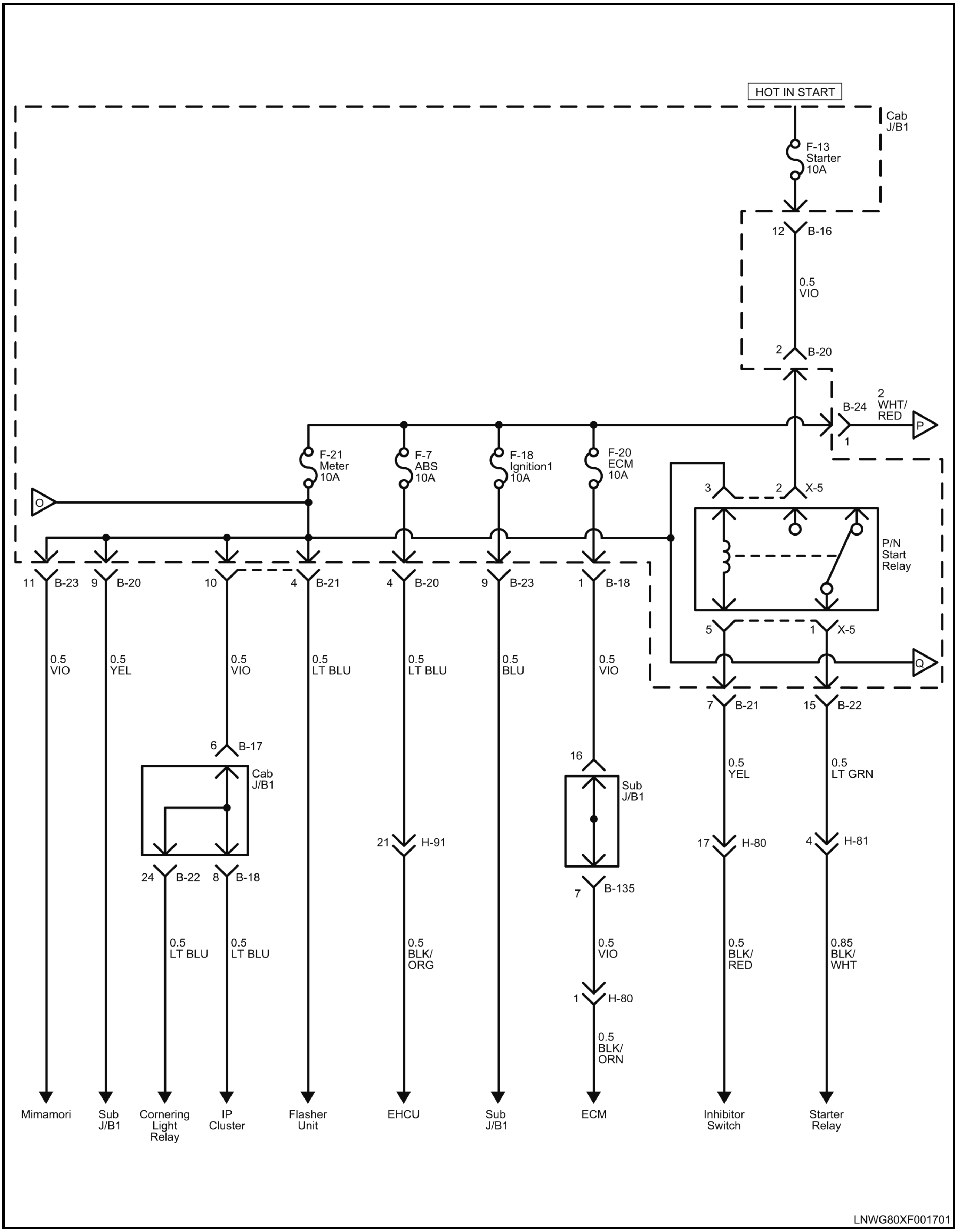
4496162


Cab J/B1
F
J
G
3 WHT/RED
K
Cab J/B1
H
I
L
M
N
F-12 Brake Lamps 10A
3
2
X-1
Stoplight Relay
5
1
X-1
12
0.5 BRN
4
B-22
0.5 BLU
3
B-136
Sub J/B1
12
B-136
3
B-137
14
B-138
0.5 LT BLU
17
H-81
0.5 GRN
3
H-101
0.5 GRN
2
H-66
0.5 GRN
0.5 BRN
0.5 LT GRN
Stoplight Switch
Rear Combination Light RH/LH
TCM
Trailer Stop Relay
LNWH80XF010201

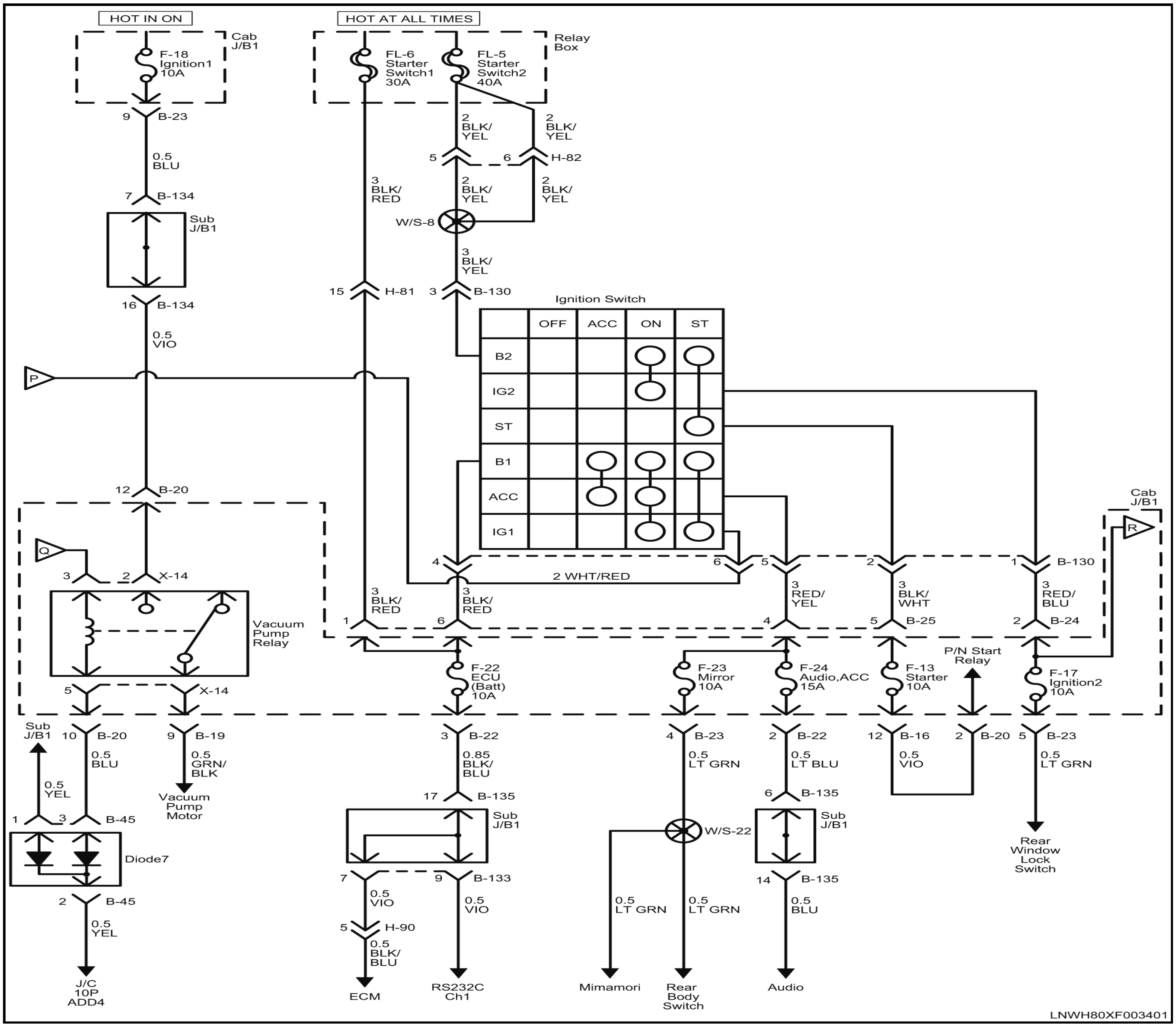
4709585


Cab J/B1
J
O
K
3 WHT/RED
5 B-26
Cab J/B1
L
M
N
3
2 X-13
3
2 X-15
Headlight Low Relay
Headlight High Relay
5
1 X-13
5
1 X-15
F-9 H/Lamp Lo (LH) 10A
F-11 H/Lamp Lo (RH) 10A
F-14 H/Lamp Hi (LH) 10A
F-15 H/Lamp Hi (RH) 10A
6 B-18
2 B-16
7 B-19
7 B-18
3
8 B-19
8 B-23
0.5 YEL
0.85 WHT
0.85 PNK
0.5 BLU
0.85 RED
0.5 RED
0.85 RED
4 B-131
Sub J/B1
W/S-20
W/S-21
16 H-84
5 B-131
12 B-133
0.85 WHT
0.85 WHT
0.85 PNK
0.85 PNK
0.5 BLU
0.5 RED/ WHT
0.5 RED
Combination Switch
Headlight LH
DRL Control Unit
Headlight RH
DRL Control Unit
Combination Switch
DRL Control Unit
Headlight LH
IP Cluster
Headlight RH
LNWG80XF011401

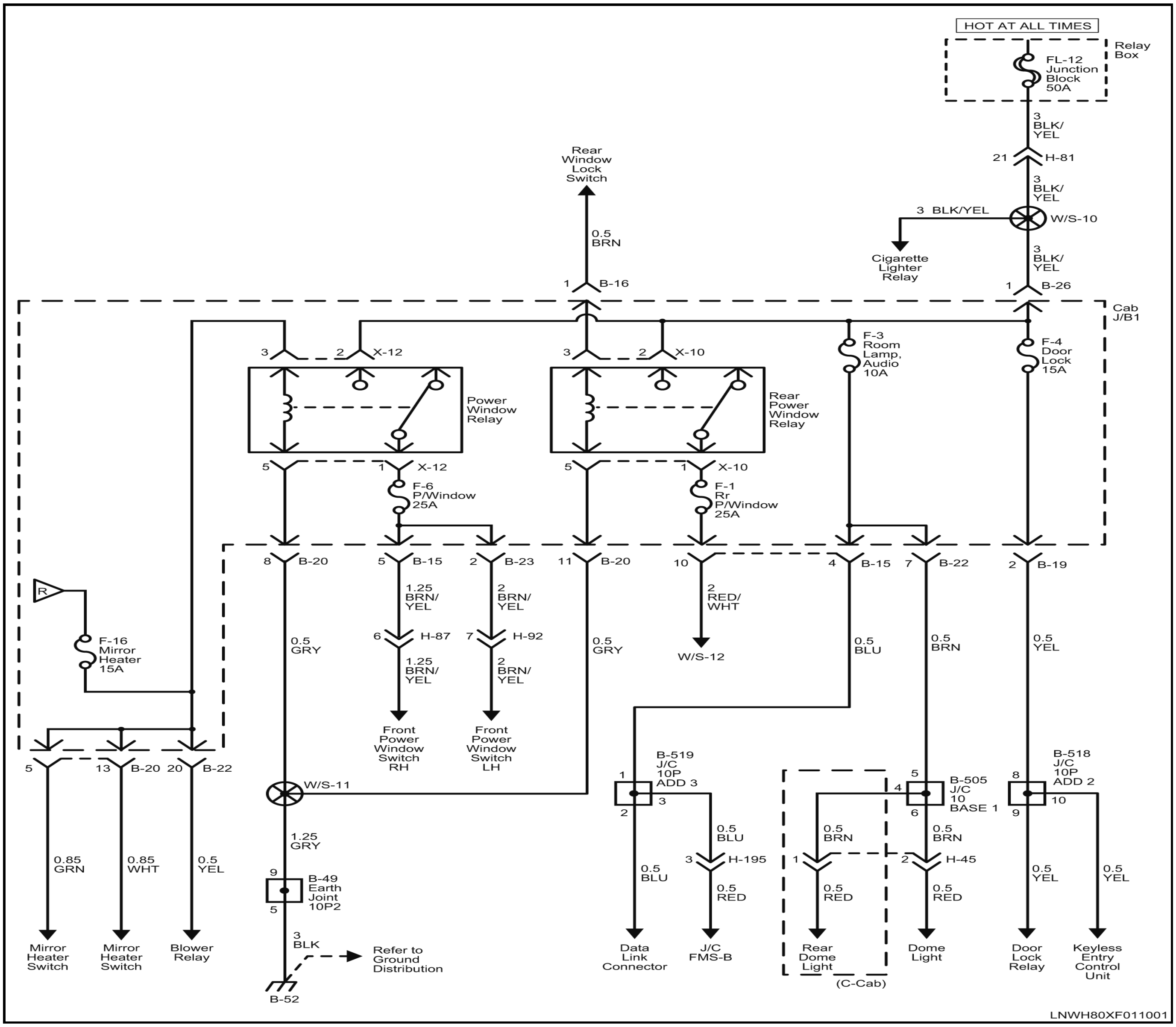
4497805


HOT IN START
Cab J/B1
F-13 Starter 10A
12 B-16
0.5 VIO
2 B-20
B-24
2 WHT/ RED
1
P
F-21 Meter 10A
F-7 ABS 10A
F-18 Ignition1 10A
F-20 ECM 10A
3
2 X-5
O
P/N Start Relay
11 B-23
9 B-20
10
4 B-21
4 B-20
9 B-23
1 B-18
5
1 X-5
Q
0.5 VIO
0.5 YEL
0.5 VIO
0.5 LT BLU
0.5 LT BLU
0.5 BLU
0.5 VIO
7 B-21
15 B-22
6 B-17
Cab J/B1
16
Sub J/B1
0.5 YEL
0.5 LT GRN
21 H-91
17 H-80
4 H-81
24 B-22
8 B-18
7 B-135
0.5 LT BLU
0.5 LT BLU
0.5 BLK/ ORG
0.5 VIO
0.5 BLK/ RED
0.85 BLK/ WHT
1 H-80
0.5 BLK/ ORN
Mimamori
Sub J/B1
Cornering Light Relay
IP Cluster
Flasher Unit
EHCU
Sub J/B1
ECM
Inhibitor Switch
Starter Relay
LNWG80XF001701

4497808


HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-18 Ignition1 10A
FL-6 Starter Switch1 30A
FL-5 Starter Switch2 40A
Relay Box
9 B-23
0.5 BLU
7 B-134
Sub J/B1
16 B-134
0.5 VIO
2 BLK/YEL
2 BLK/YEL
5 6 H-82
3 BLK/RED
2 BLK/YEL
2 BLK/YEL
W/S-8
3 BLK/YEL
15 H-81
3 B-130
Ignition Switch
OFF
ACC
ON
ST
B2
IG2
ST
B1
ACC
IG1
P
12 B-20
Q
3 2 X-14
Vacuum Pump Relay
5 X-14
4
6 5
2 WHT/RED
2
1 B-130
3 BLK/RED
3 BLK/RED
1 6
3 RED/YEL
3 BLK/WHT
3 RED/BLU
4
5 B-25
2 B-24
Cab J/B1
R
F-22 ECU (Batt) 10A
F-23 Mirror 10A
F-24 Audio,ACC 15A
F-13 Starter 10A
P/N Start Relay
F-17 Ignition2 10A
Sub J/B1
10 B-20
9 B-19
3 B-22
4 B-23
2 B-22
12 B-16
2 B-20
5 B-23
0.5 BLU
0.5 GRN/BLK
0.85 BLK/BLU
0.5 LT GRN
0.5 LT BLU
0.5 VIO
0.5 LT GRN
0.5 YEL
Vacuum Pump Motor
17 B-135
6 B-135
1 3 B-45
Sub J/B1
W/S-22
Sub J/B1
Rear Window Lock Switch
Diode7
7 9 B-133
14 B-135
2 B-45
0.5 VIO
0.5 VIO
0.5 LT GRN
0.5 LT GRN
0.5 BLU
0.5 YEL
5 H-90
0.5 BLK/BLU
J/C 10P ADD4
ECM
RS232C Ch1
Mimamori
Rear Body Switch
Audio
LNWH80XF003401

4709612


HOT AT ALL TIMES
Relay Box
FL-12 Junction Block 50A
3 BLK/YEL
21 H-81
3 BLK/YEL
3 BLK/YEL
W/S-10
Cigarette Lighter Relay
3 BLK/YEL
1 B-26
Rear Window Lock Switch
0.5 BRN
1 B-16
Cab J/B1
3 2 X-12
Power Window Relay
5 1 X-12
F-6 P/Window 25A
3 2 X-10
Rear Power Window Relay
5 1 X-10
F-1 Rr P/Window 25A
F-3 Room Lamp, Audio 10A
F-4 Door Lock 15A
R
F-16 Mirror Heater 15A
8 B-20
5 B-15
2 B-23
11 B-20
10
4 B-15
7 B-22
2 B-19
0.5 GRY
1.25 BRN/YEL
6 H-87
1.25 BRN/YEL
2 BRN/YEL
7 H-92
2 BRN/YEL
0.5 GRY
2 RED/WHT
W/S-12
0.5 BLU
0.5 BRN
0.5 YEL
Front Power Window Switch RH
Front Power Window Switch LH
5
13 B-20
20 B-22
W/S-11
0.85 GRN
0.85 WHT
0.5 YEL
Mirror Heater Switch
Mirror Heater Switch
Blower Relay
1.25 GRY
9
B-49 Earth Joint 10P2
5
3 BLK
Refer to Ground Distribution
B-52
B-519 J/C 10P ADD 3
1 2 3
0.5 BLU
0.5 BLU
3 H-195
0.5 RED
Data Link Connector
J/C FMS-B
5 4 6
B-505 J/C 10 BASE 1
0.5 BRN
0.5 BRN
1
2 H-45
0.5 RED
0.5 RED
Rear Dome Light
(C-Cab)
Dome Light
B-518 J/C 10P ADD 2
8 9 10
0.5 YEL
0.5 YEL
Door Lock Relay
Keyless Entry Control Unit
LNWH80XF011001

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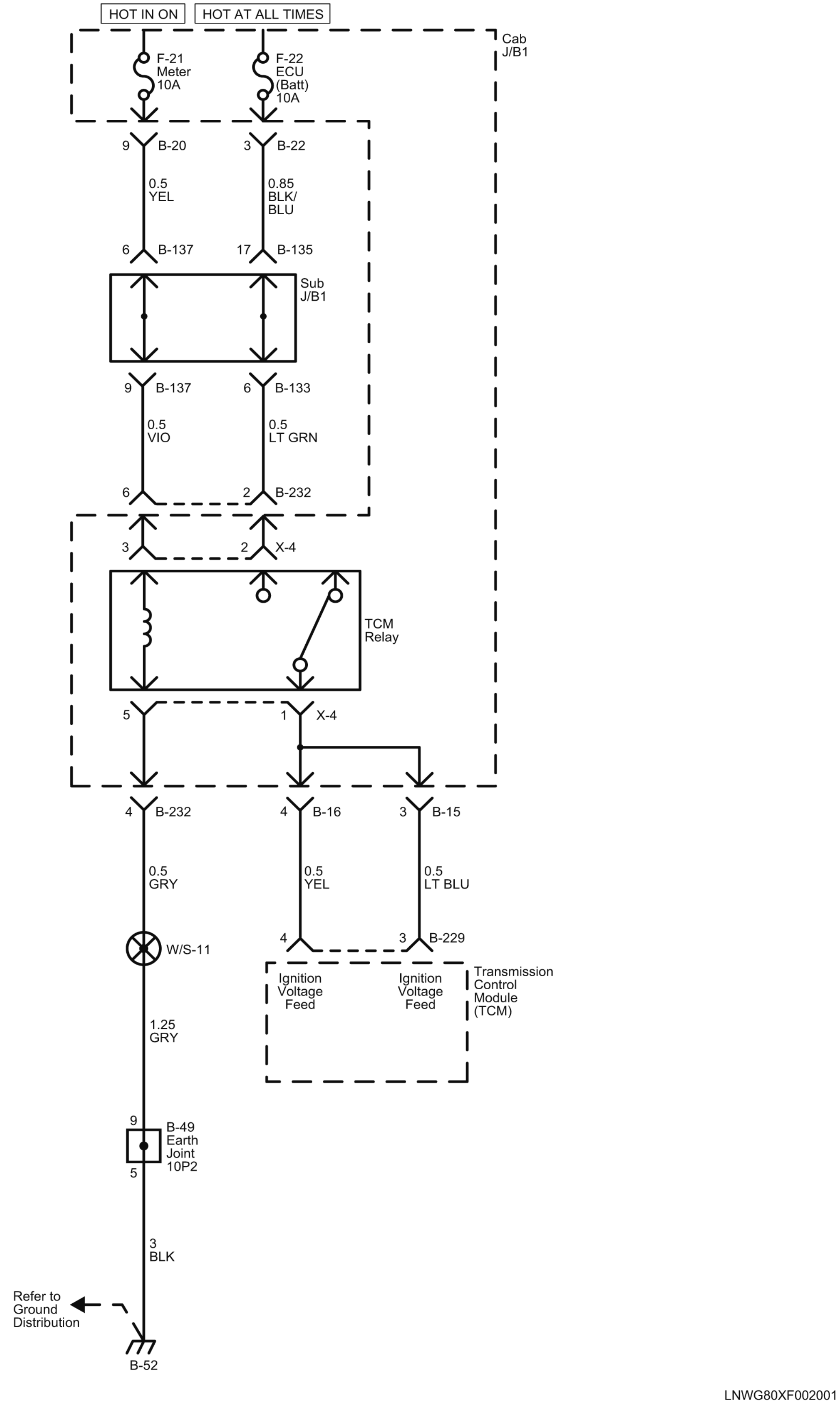
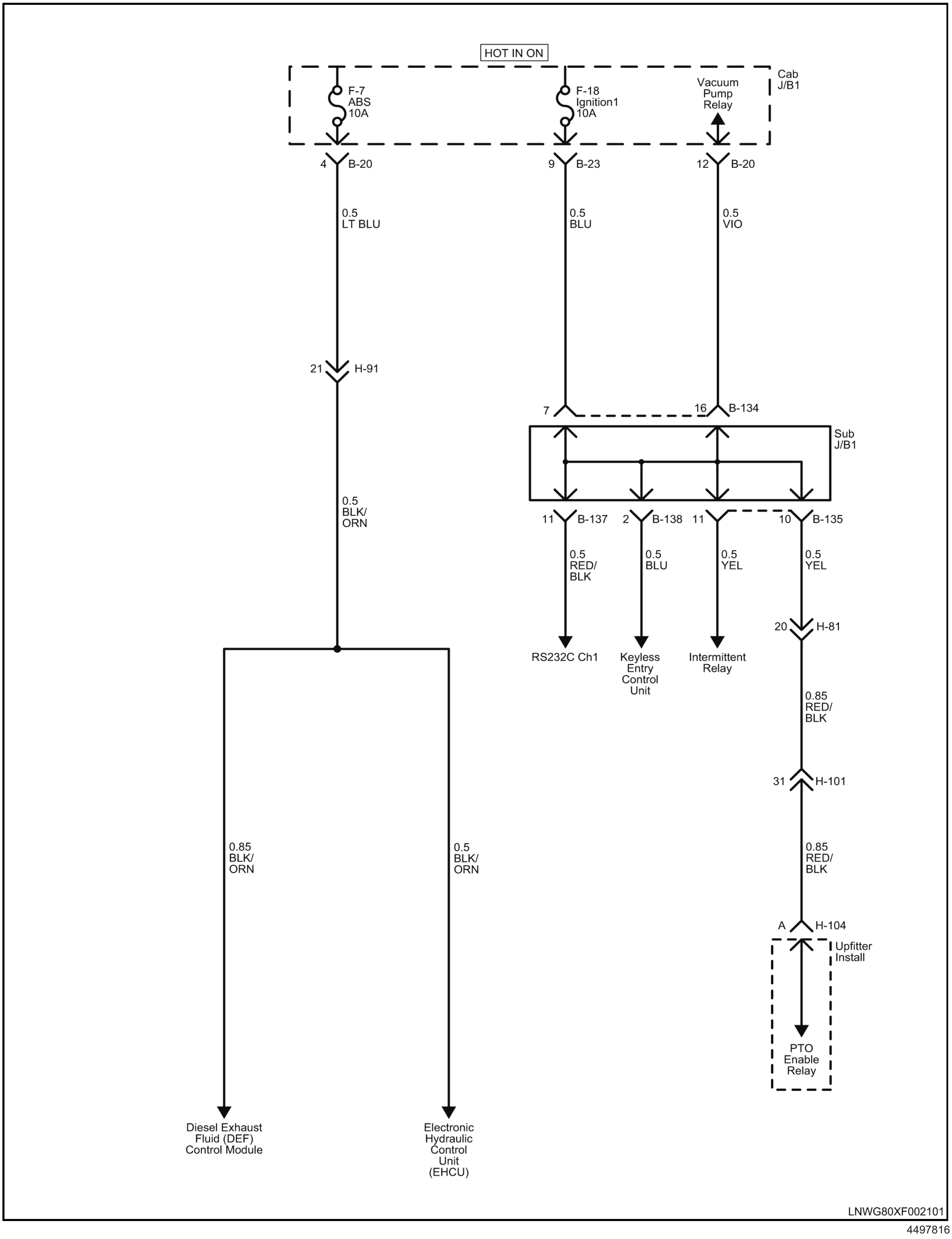
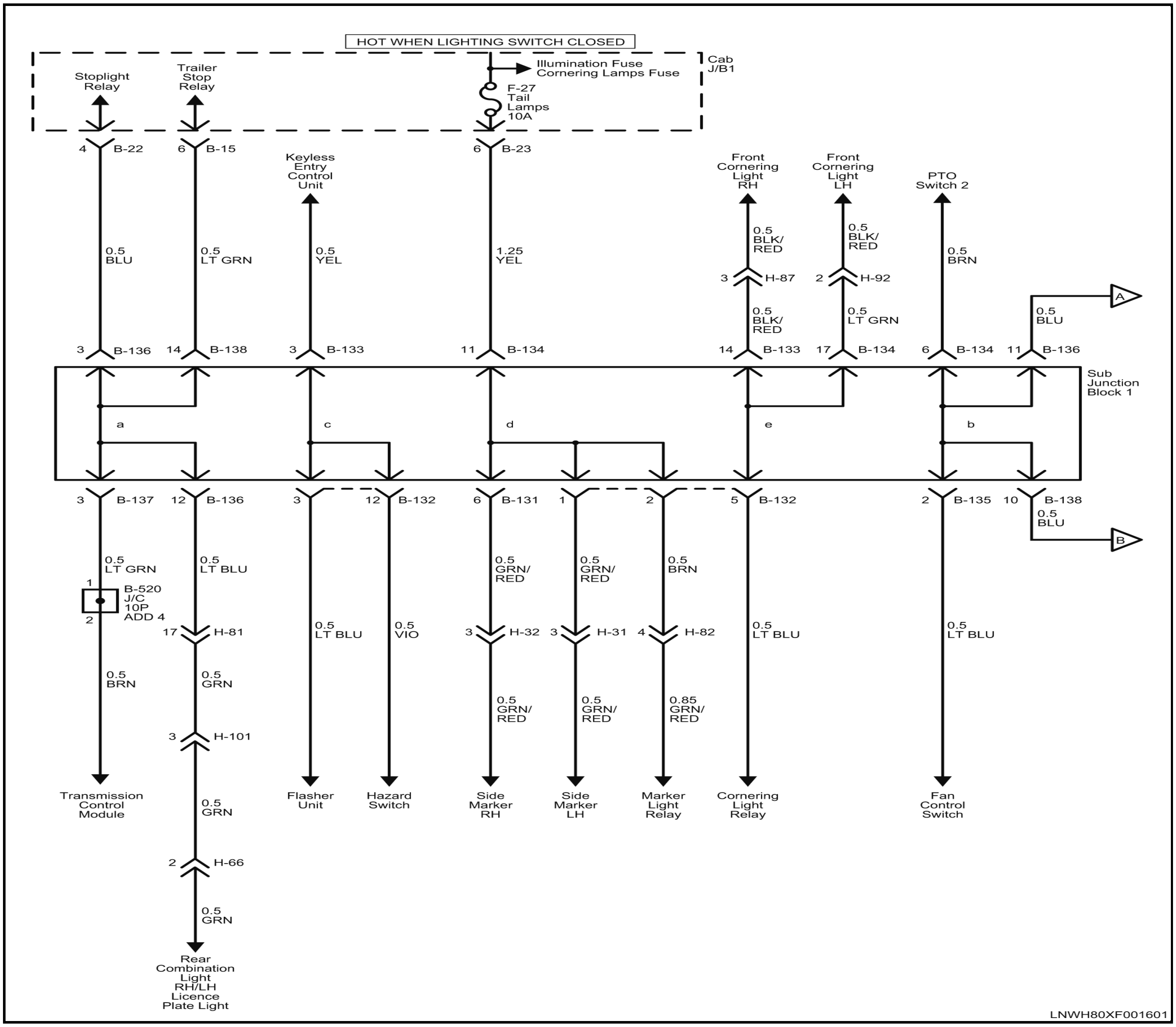

HOT IN ON
HOT AT ALL TIMES
Cab J/B1
F-21 Meter 10A
F-22 ECU (Batt) 10A
9 B-20
3 B-22
0.5 YEL
0.85 BLK/ BLU
6 B-137
17 B-135
Sub J/B1
9 B-137
6 B-133
0.5 VIO
0.5 LT GRN
6
2 B-232
3
2 X-4
TCM Relay
5
1 X-4
4 B-232
4 B-16
3 B-15
0.5 GRY
0.5 YEL
0.5 LT BLU
4
3 B-229
W/S-11
Ignition Voltage Feed
Ignition Voltage Feed
Transmission Control Module (TCM)
1.25 GRY
9
B-49 Earth Joint 10P2
5
3 BLK
Refer to Ground Distribution
B-52
LNWG80XF002001

4497813

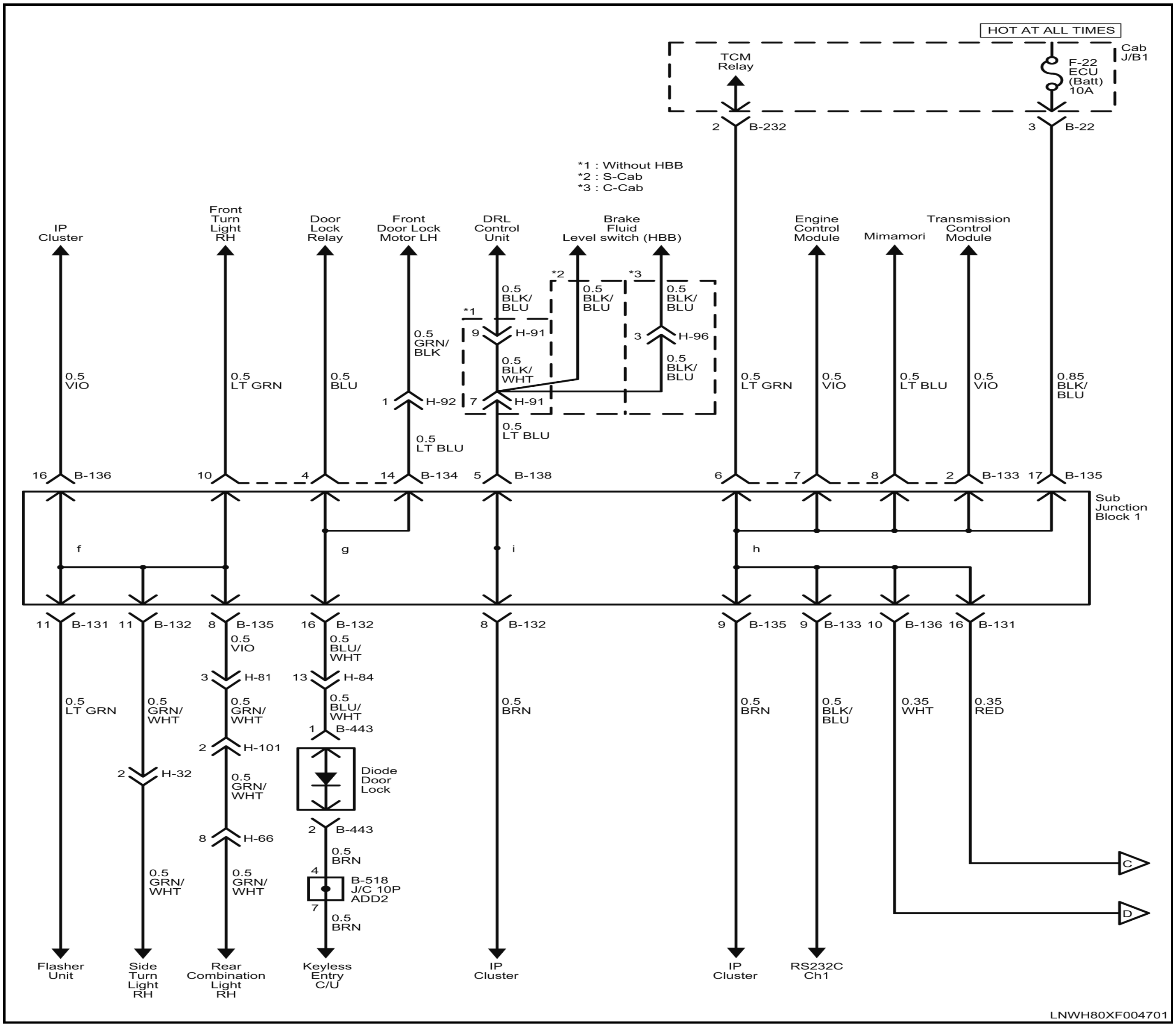

HOT IN ON
Cab J/B1
F-7 ABS 10A
F-18 Ignition1 10A
Vacuum Pump Relay
4 B-20
9 B-23
12 B-20
0.5 LT BLU
0.5 BLU
0.5 VIO
21 H-91
7
16 B-134
Sub J/B1
0.5 BLK/ ORN
11 B-137
2 B-138
11
10 B-135
0.5 RED/ BLK
0.5 BLU
0.5 YEL
0.5 YEL
20 H-81
RS232C Ch1
Keyless Entry Control Unit
Intermittent Relay
0.85 RED/ BLK
31 H-101
0.85 BLK/ ORN
0.5 BLK/ ORN
0.85 RED/ BLK
A H-104
Upfitter Install
PTO Enable Relay
Diesel Exhaust Fluid (DEF) Control Module
Electronic Hydraulic Control Unit (EHCU)
LNWG80XF002101

4497816

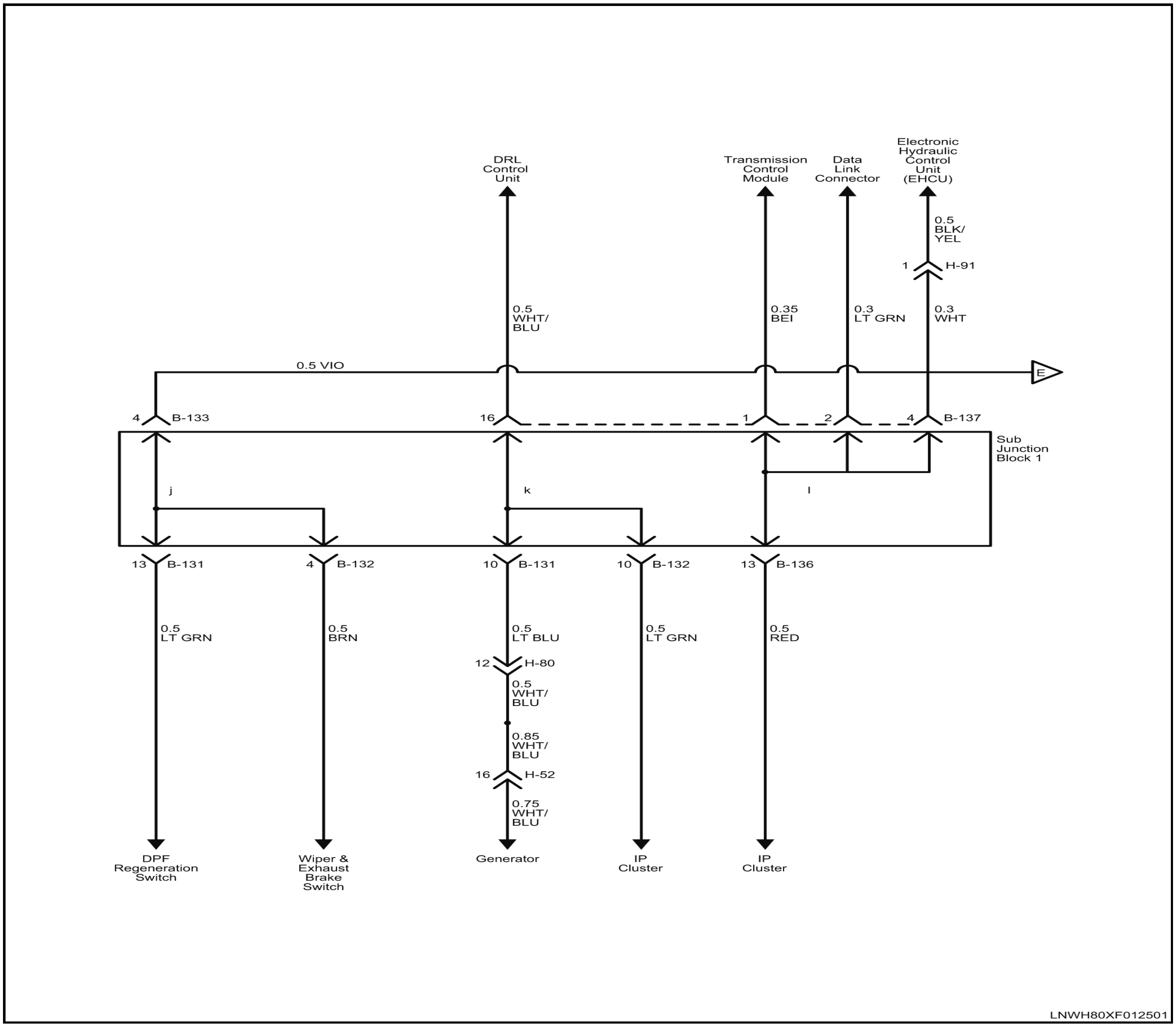
Sub Junction Block 1 Schematics


HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
Stoplight Relay
Trailer Stop Relay
Illumination Fuse Cornering Lamps Fuse
F-27 Tail Lamps 10A
4 B-22
6 B-15
6 B-23
Keyless Entry Control Unit
Front Cornering Light RH
Front Cornering Light LH
PTO Switch 2
0.5 BLU
0.5 LT GRN
0.5 YEL
1.25 YEL
0.5 BLK/ RED
0.5 BLK/ RED
0.5 BRN
3 H-87
2 H-92
0.5 BLK/ RED
0.5 LT GRN
0.5 BLU
A
3 B-136
14 B-138
3 B-133
11 B-134
14 B-133
17 B-134
6 B-134
11 B-136
Sub Junction Block 1
a
c
d
e
b
3 B-137
12 B-136
3
12 B-132
6 B-131
1
2
5 B-132
2 B-135
10 B-138
0.5 BLU
B
0.5 LT GRN
1
B-520 J/C 10P ADD 4
2
0.5 LT BLU
17 H-81
0.5 LT BLU
0.5 VIO
0.5 GRN/ RED
0.5 GRN/ RED
0.5 BRN
3 H-32
3 H-31
4 H-82
0.5 LT BLU
0.5 LT BLU
0.5 BRN
0.5 GRN
0.5 GRN/ RED
0.5 GRN/ RED
0.85 GRN/ RED
3 H-101
Transmission Control Module
0.5 GRN
Flasher Unit
Hazard Switch
Side Marker RH
Side Marker LH
Marker Light Relay
Cornering Light Relay
Fan Control Switch
2 H-66
0.5 GRN
Rear Combination Light RH/LH Licence Plate Light
LNWH80XF001601

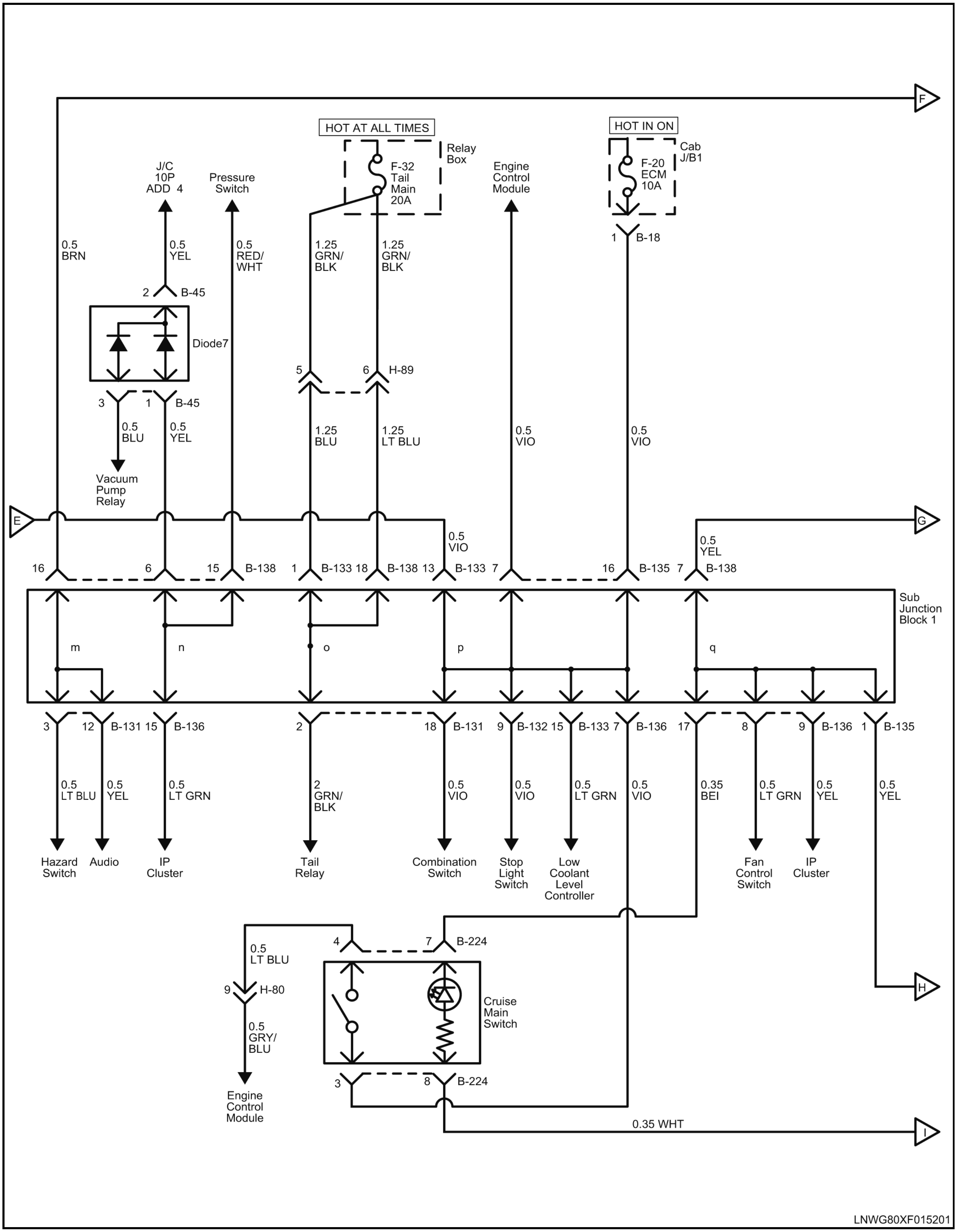
4710853


HOT AT ALL TIMES
Cab J/B1
TCM Relay
F-22 ECU (Batt) 10A
2 B-232
3 B-22
*1 : Without HBB
*2 : S-Cab
*3 : C-Cab
IP Cluster
Front Turn Light RH
Door Lock Relay
Front Door Lock Motor LH
DRL Control Unit
Brake Fluid Level switch (HBB)
Engine Control Module
Mimamori
Transmission Control Module
0.5 BLK/BLU
*1
*2
*3
9 H-91
3 H-96
0.5 GRN/BLK
0.5 BLK/WHT
0.5 VIO
0.5 LT GRN
0.5 BLU
0.5 LT GRN
0.5 VIO
0.5 LT BLU
0.5 VIO
0.85 BLK/BLU
1 H-92
7 H-91
0.5 LT BLU
0.5 LT BLU
16 B-136
10
4
14 B-134
5 B-138
6
7
8
2 B-133
17 B-135
Sub Junction Block 1
f
g
i
h
11 B-131
11 B-132
8 B-135
16 B-132
8 B-132
9 B-135
9 B-133
10 B-136
16 B-131
0.5 VIO
0.5 BLU/WHT
3 H-81
13 H-84
0.5 LT GRN
0.5 GRN/WHT
0.5 GRN/WHT
0.5 BLU/WHT
1 B-443
0.5 BRN
0.5 BRN
0.5 BLK/BLU
0.35 WHT
0.35 RED
2 H-101
Diode Door Lock
2 H-32
0.5 GRN/WHT
8 H-66
2 B-443
0.5 BRN
4
B-518 J/C 10P ADD2
7
0.5 GRN/WHT
0.5 GRN/WHT
0.5 BRN
C
D
Flasher Unit
Side Turn Light RH
Rear Combination Light RH
Keyless Entry C/U
IP Cluster
IP Cluster
RS232C Ch1
LNWH80XF004701

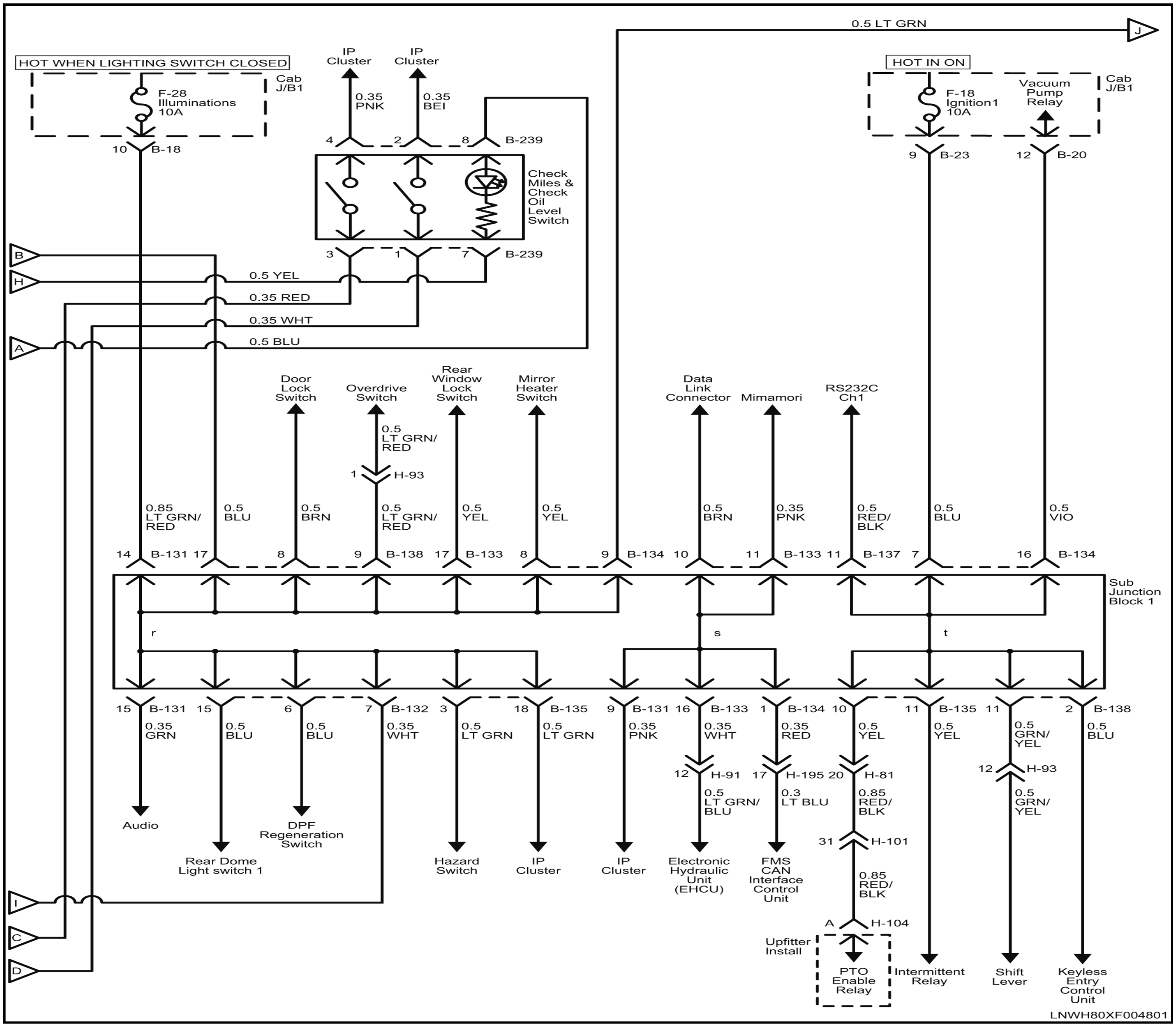
4710888


DRL Control Unit
Transmission Control Module
Data Link Connector
Electronic Hydraulic Control Unit (EHCU)
0.5 BLK/ YEL
1 H-91
0.5 WHT/ BLU
0.35 BEI
0.3 LT GRN
0.3 WHT
0.5 VIO
E
4 B-133
16
1
2
4 B-137
Sub Junction Block 1
j
k
l
13 B-131
4 B-132
10 B-131
10 B-132
13 B-136
0.5 LT GRN
0.5 BRN
0.5 LT BLU
0.5 LT GRN
0.5 RED
12 H-80
0.5 WHT/ BLU
0.85 WHT/ BLU
16 H-52
0.75 WHT/ BLU
DPF Regeneration Switch
Wiper & Exhaust Brake Switch
Generator
IP Cluster
IP Cluster
LNWH80XF012501

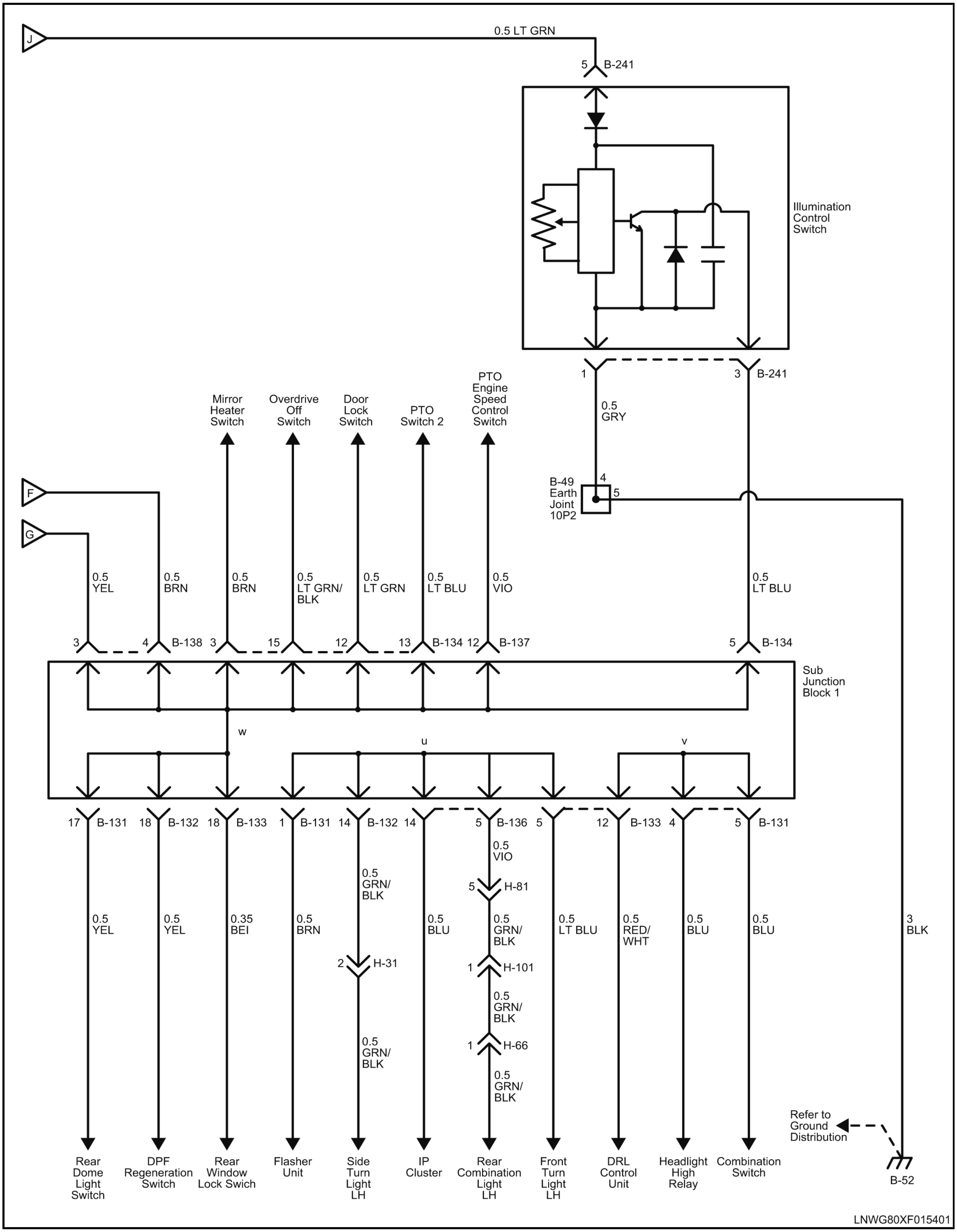
4710900


F
HOT AT ALL TIMES
Relay Box
F-32 Tail Main 20A
HOT IN ON
Cab J/B1
F-20 ECM 10A
1 B-18
J/C 10P ADD 4
Pressure Switch
Engine Control Module
0.5 BRN
0.5 YEL
0.5 RED/ WHT
1.25 GRN/ BLK
1.25 GRN/ BLK
2 B-45
Diode7
5
6 H-89
3
1 B-45
0.5 BLU
0.5 YEL
Vacuum Pump Relay
1.25 BLU
1.25 LT BLU
0.5 VIO
0.5 VIO
E
G
0.5 VIO
0.5 YEL
16
6
15 B-138
1 B-133
18 B-138
13 B-133
7
16 B-135
7 B-138
Sub Junction Block 1
m
n
o
p
q
3
12 B-131
15 B-136
2
18 B-131
9 B-132
15 B-133
7 B-136
17
8
9 B-136
1 B-135
0.5 LT BLU
0.5 YEL
0.5 LT GRN
2 GRN/ BLK
0.5 VIO
0.5 VIO
0.5 LT GRN
0.5 VIO
0.35 BEI
0.5 LT GRN
0.5 YEL
0.5 YEL
Hazard Switch
Audio
IP Cluster
Tail Relay
Combination Switch
Stop Light Switch
Low Coolant Level Controller
Fan Control Switch
IP Cluster
4
7 B-224
0.5 LT BLU
9 H-80
0.5 GRY/ BLU
Cruise Main Switch
H
3
8 B-224
Engine Control Module
0.35 WHT
I
LNWG80XF015201

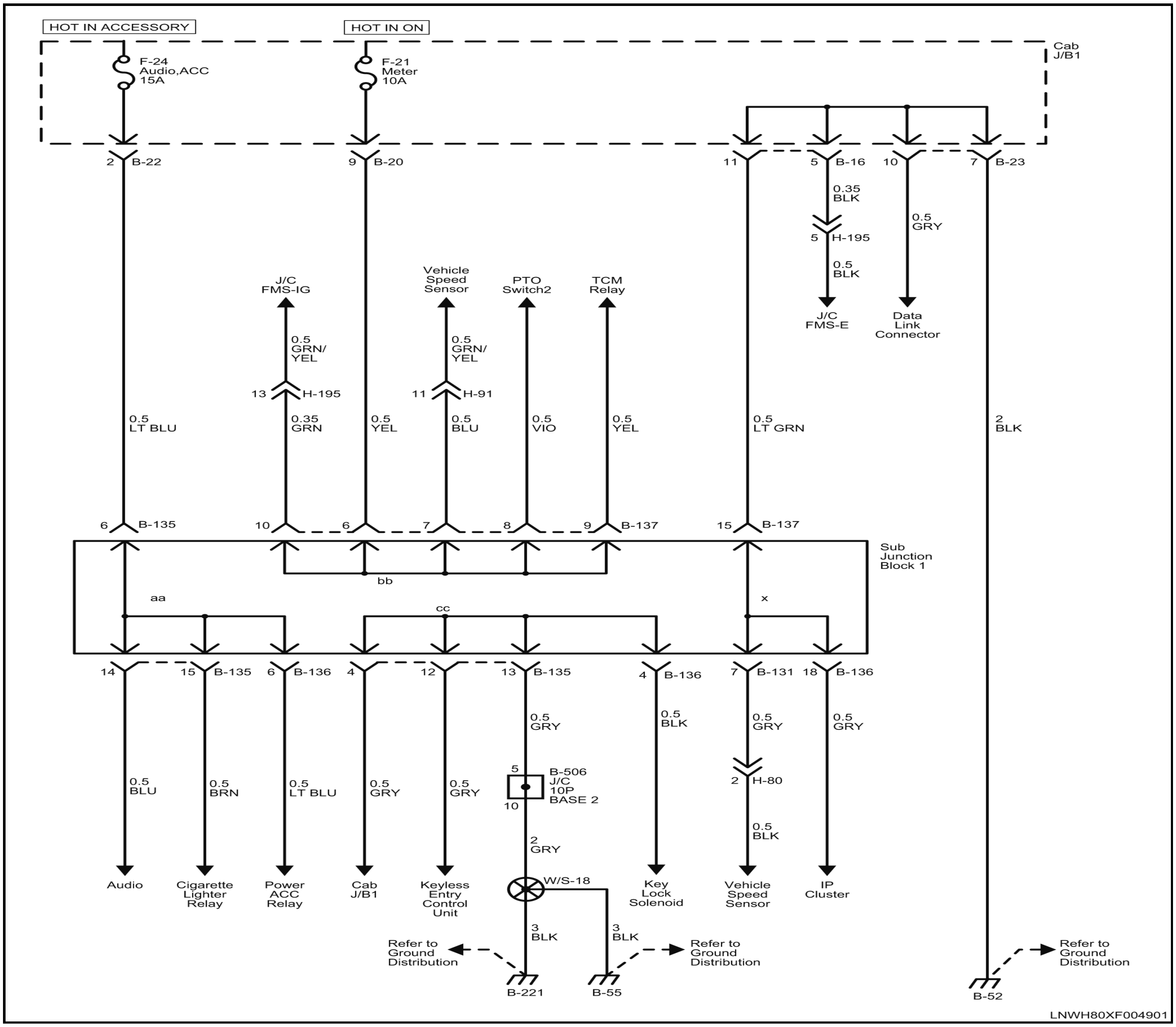
4506927


0.5 LT GRN
J
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-28 Illuminations 10A
10 B-18
IP Cluster
IP Cluster
0.35 PNK
0.35 BEI
4
2
8
B-239
Check Miles & Check Oil Level Switch
3
1
7
B-239
HOT IN ON
Cab J/B1
F-18 Ignition1 10A
Vacuum Pump Relay
9 B-23
12 B-20
B
H
A
0.5 YEL
0.35 RED
0.35 WHT
0.5 BLU
Door Lock Switch
Overdrive Switch
0.5 LT GRN/ RED
1 H-93
Rear Window Lock Switch
Mirror Heater Switch
Data Link Connector
Mimamori
RS232C Ch1
0.85 LT GRN/ RED
0.5 BLU
0.5 BRN
0.5 LT GRN/ RED
0.5 YEL
0.5 YEL
0.5 BRN
0.35 PNK
0.5 RED/ BLK
0.5 BLU
0.5 VIO
14 B-131 17
8
9 B-138 17 B-133
8
9 B-134 10
11 B-133 11 B-137 7
16 B-134
Sub Junction Block 1
r
s
t
15 B-131 15
6
7 B-132 3
18 B-135
9 B-131 16 B-133
1 B-134 10
11 B-135 11
2 B-138
0.35 GRN
0.5 BLU
0.5 BLU
0.35 WHT
0.5 LT GRN
0.5 LT GRN
0.35 PNK
0.35 WHT
0.35 RED
0.5 YEL
0.5 YEL
0.5 GRN/ YEL
0.5 BLU
12 H-91
17 H-195 20 H-81
12 H-93
0.5 LT GRN/ BLU
0.3 LT BLU
0.85 RED/ BLK
0.5 GRN/ YEL
31 H-101
0.85 RED/ BLK
A H-104
Audio
Rear Dome Light switch 1
DPF Regeneration Switch
Hazard Switch
IP Cluster
IP Cluster
Electronic Hydraulic Unit (EHCU)
FMS CAN Interface Control Unit
Upfitter Install
PTO Enable Relay
Intermittent Relay
Shift Lever
Keyless Entry Control Unit
I
C
D
LNWH80XF004801

4710923

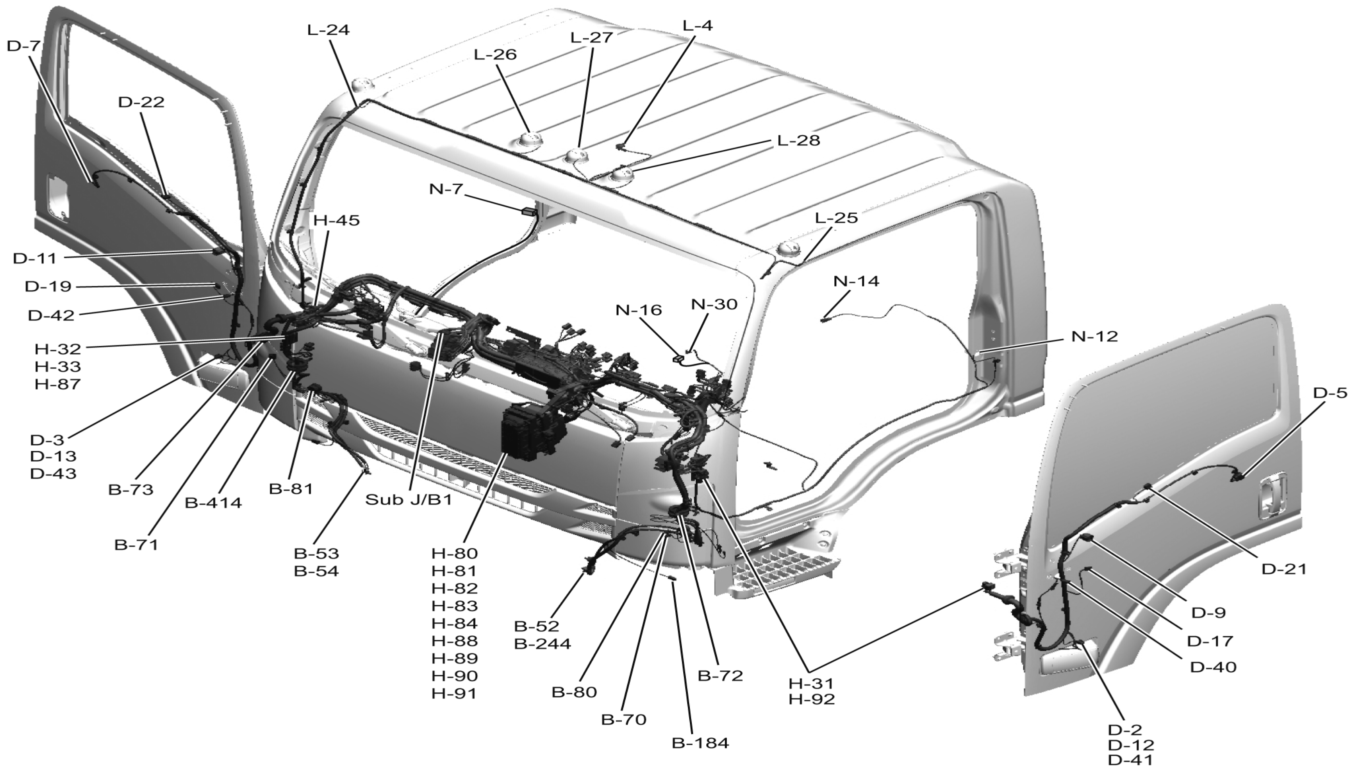

J
0.5 LT GRN
5 B-241
Illumination Control Switch
1
3 B-241
0.5 GRY
B-49 Earth Joint 10P2
4
5
F
G
Mirror Heater Switch
Overdrive Off Switch
Door Lock Switch
PTO Switch 2
PTO Engine Speed Control Switch
0.5 YEL
0.5 BRN
0.5 BRN
0.5 LT GRN/ BLK
0.5 LT GRN
0.5 LT BLU
0.5 VIO
0.5 LT BLU
3
4 B-138
3
15
12
13 B-134
12 B-137
5 B-134
Sub Junction Block 1
w
u
v
17 B-131
18 B-132
18 B-133
1 B-131
14 B-132
14
5 B-136
5
12 B-133
4
5 B-131
0.5 YEL
0.5 YEL
0.35 BEI
0.5 BRN
0.5 GRN/ BLK
2 H-31
0.5 GRN/ BLK
0.5 BLU
0.5 VIO
5 H-81
0.5 GRN/ BLK
1 H-101
0.5 GRN/ BLK
1 H-66
0.5 GRN/ BLK
0.5 LT BLU
0.5 RED/ WHT
0.5 BLU
0.5 BLU
3 BLK
Refer to Ground Distribution
B-52
Rear Dome Light Switch
DPF Regeneration Switch
Rear Window Lock Swich
Flasher Unit
Side Turn Light LH
IP Cluster
Rear Combination Light LH
Front Turn Light LH
DRL Control Unit
Headlight High Relay
Combination Switch
LNWG80XF015401

4506942


HOT IN ACCESSORY
HOT IN ON
F-24 Audio,ACC 15A
F-21 Meter 10A
Cab J/B1
2 B-22
9 B-20
11
5 B-16
10
7 B-23
0.35 BLK
5 H-195
0.5 BLK
0.5 GRY
J/C FMS-E
Data Link Connector
J/C FMS-IG
Vehicle Speed Sensor
PTO Switch2
TCM Relay
0.5 GRN/YEL
0.5 GRN/YEL
13 H-195
11 H-91
0.5 LT BLU
0.35 GRN
0.5 YEL
0.5 BLU
0.5 VIO
0.5 YEL
0.5 LT GRN
2 BLK
6 B-135
10
6
7
8
9 B-137
15 B-137
Sub Junction Block 1
bb
aa
cc
x
14
15 B-135
6 B-136
4
12
13 B-135
4 B-136
7 B-131
18 B-136
0.5 GRY
0.5 BLK
0.5 GRY
0.5 GRY
2 H-80
0.5 BLK
0.5 BLU
0.5 BRN
0.5 LT BLU
0.5 GRY
0.5 GRY
5 B-506 J/C 10P BASE 2
10
2 GRY
Audio
Cigarette Lighter Relay
Power ACC Relay
Cab J/B1
Keyless Entry Control Unit
Key Lock Solenoid
Vehicle Speed Sensor
IP Cluster
W/S-18
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-221
B-55
B-52
LNWH80XF004901

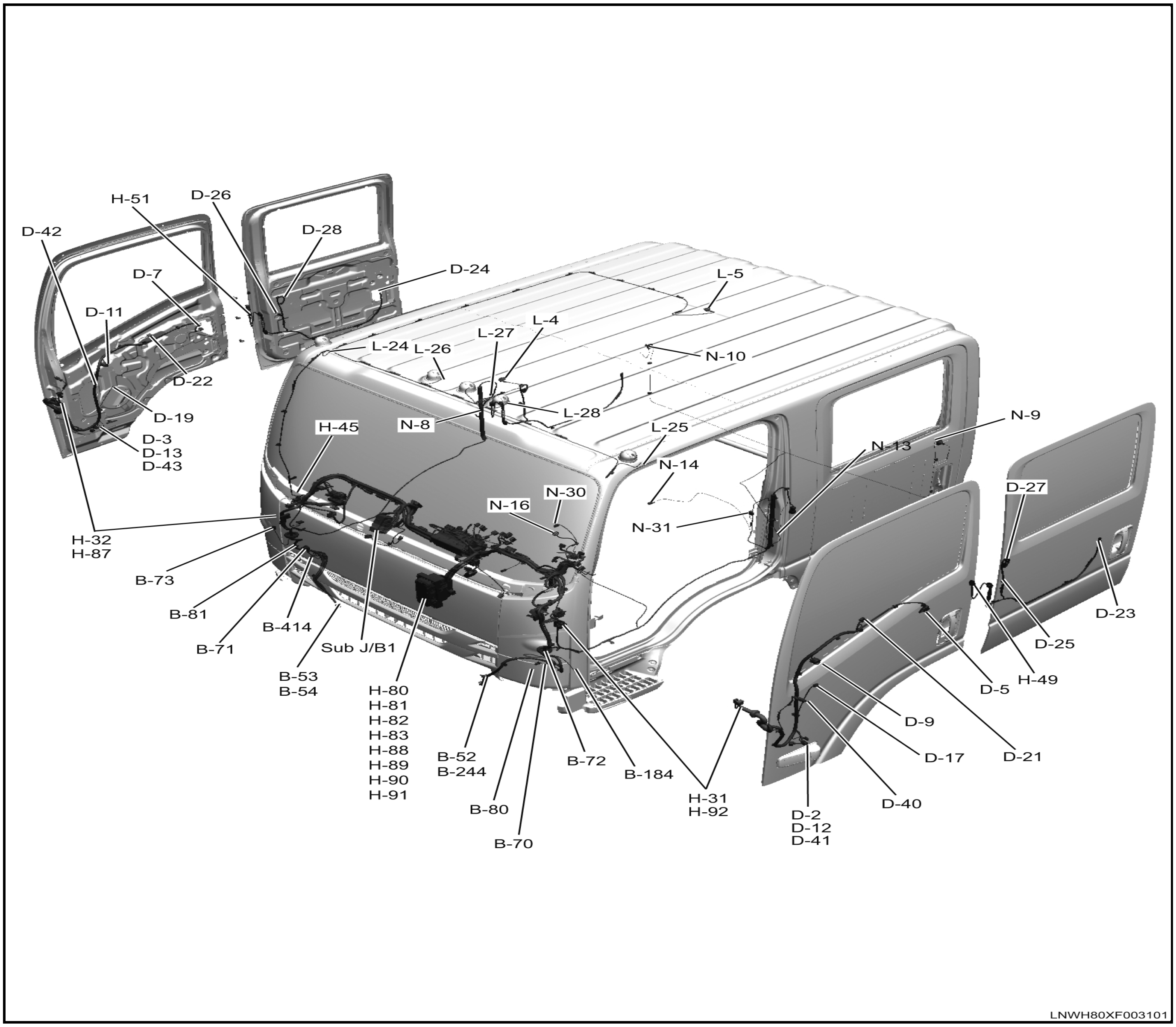
4710944

Harness Routing Views (Cab Harness (S-CAB) Routing)


D-7
L-24
L-26
L-27
L-4
D-22
L-28
N-7
H-45
L-25
D-11
N-14
D-19
N-16
N-30
D-42
N-12
H-32
H-33
H-87
D-5
D-3
D-13
D-43
B-73
B-414
B-81
Sub J/B1
D-21
B-71
B-53
B-54
H-80
H-81
H-82
H-83
H-84
H-88
H-89
H-90
H-91
B-52
B-244
D-9
D-17
D-40
B-80
B-72
H-31
H-92
B-70
B-184
D-2
D-12
D-41
LNWH80XF002501

4709124

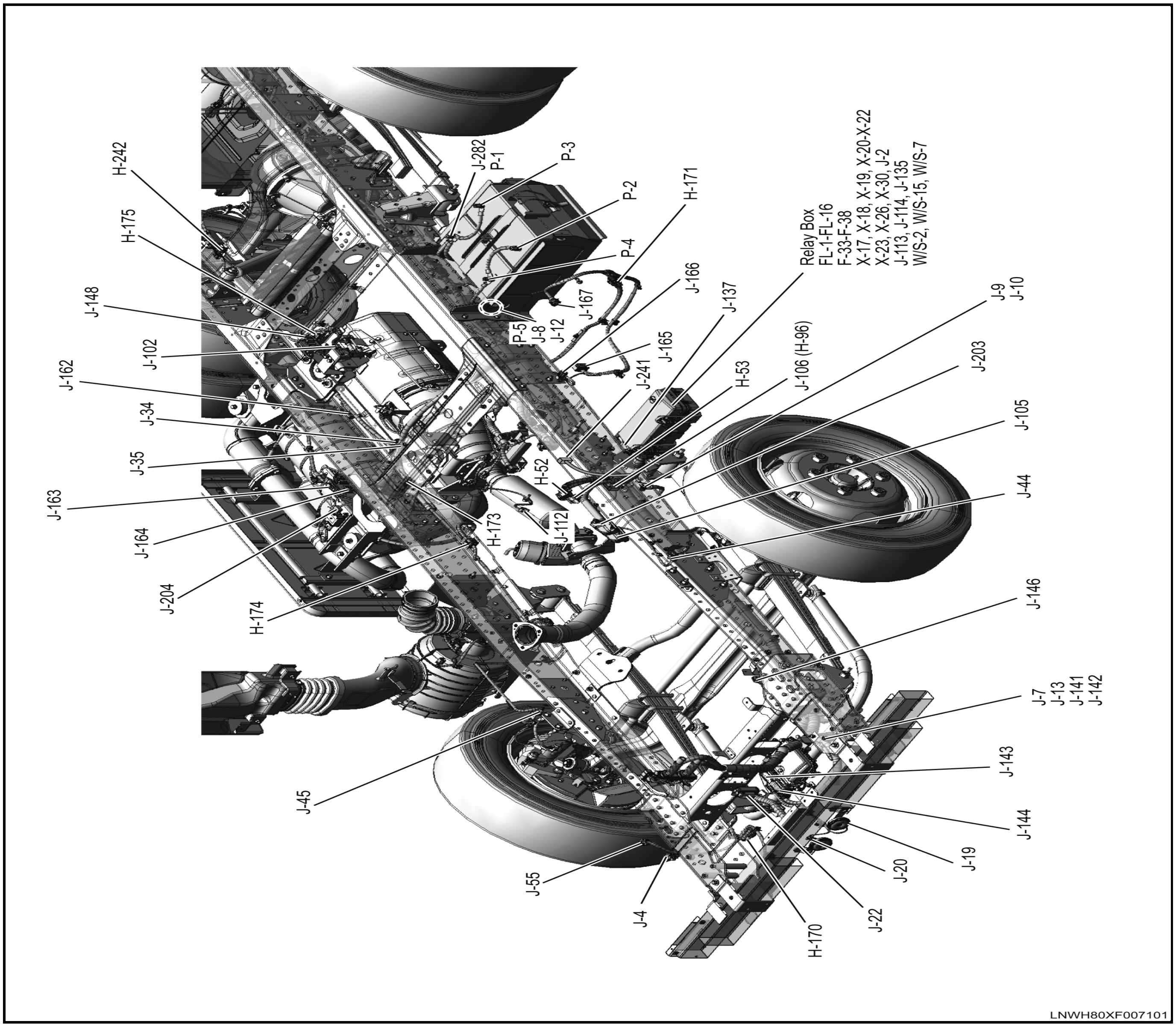
Harness Routing Views (Cab Harness (C-CAB) Routing)


H-51
D-26
D-42
D-28
D-24
D-7
L-5
D-11
L-4
L-27
L-24
L-26
N-10
D-22
D-19
L-28
N-9
D-3
D-13
D-43
H-45
N-8
L-25
N-13
N-14
N-30
D-27
N-16
N-31
H-32
H-87
B-73
D-23
B-81
B-414
Sub J/B1
D-25
B-71
H-49
D-5
B-53
B-54
D-9
H-80
H-81
H-82
H-83
H-88
H-89
H-90
H-91
B-52
B-244
B-72
B-184
D-17
D-21
D-40
H-31
H-92
B-80
D-2
D-12
D-41
B-70

LNWH80XF003101

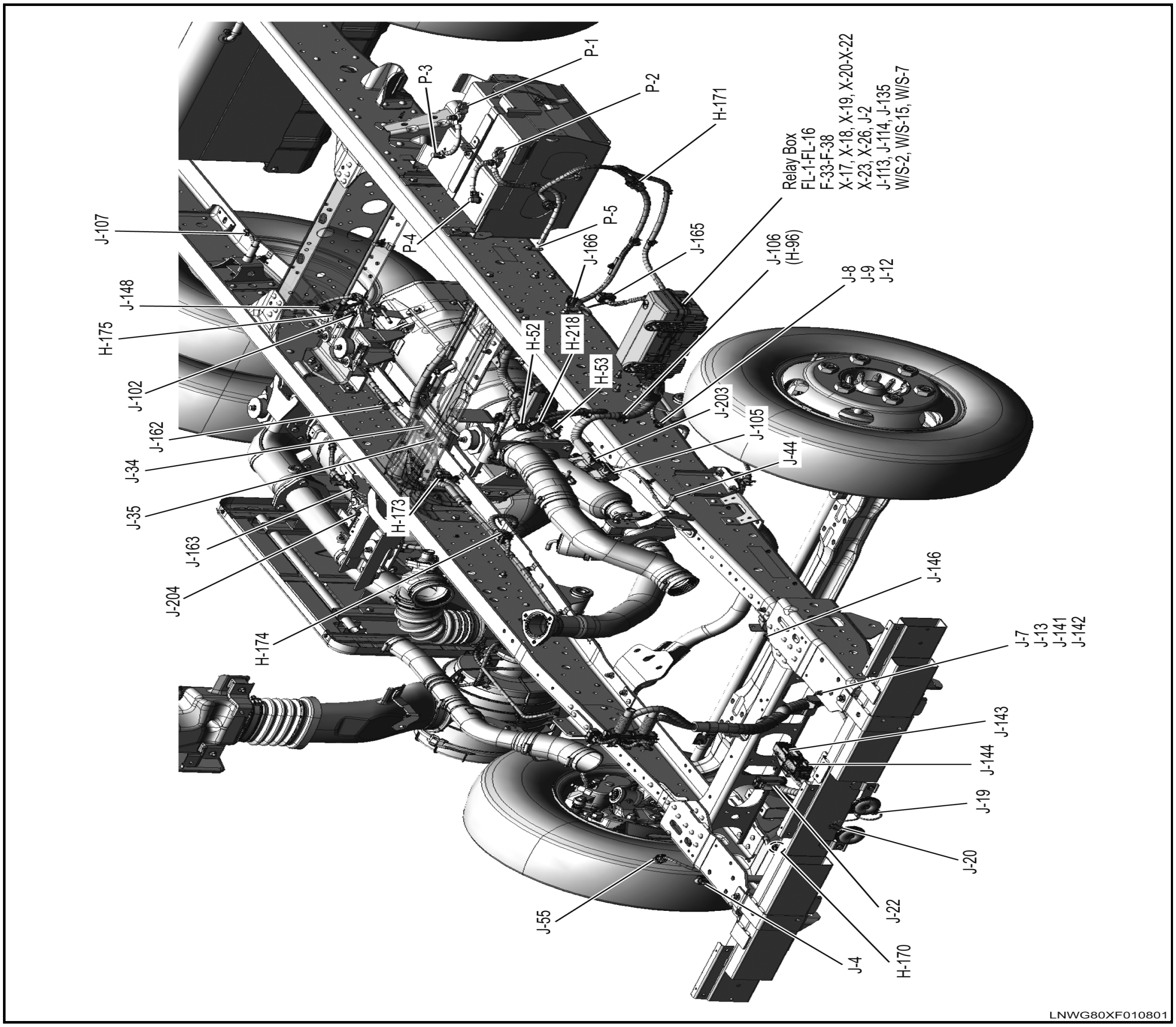
4709130

Harness Routing Views (Frame Harness Routing 1 of 6)


H-242
H-175
J-148
J-102
J-162
J-34
J-35
J-163
J-164
J-204
H-174
J-45
J-55
J-4
H-170
J-22
J-20
J-19
J-144
J-143
J-7
J-13
J-141
J-142
J-146
J-44
J-105
J-203
J-9
J-10
Relay Box
FL-1-FL-16
F-33-F-38
X-17, X-18, X-19, X-20-X-22
X-23, X-26, X-30, J-2
J-113, J-114, J-135
W/S-2, W/S-15, W/S-7
J-106 (H-96)
H-53
J-137
J-241
J-165
J-166
H-171
P-4
P-2
P-3
J-282
P-1
J-167
J-12
J-8
P-5
H-52
J-112
H-173
LNWH80XF007101

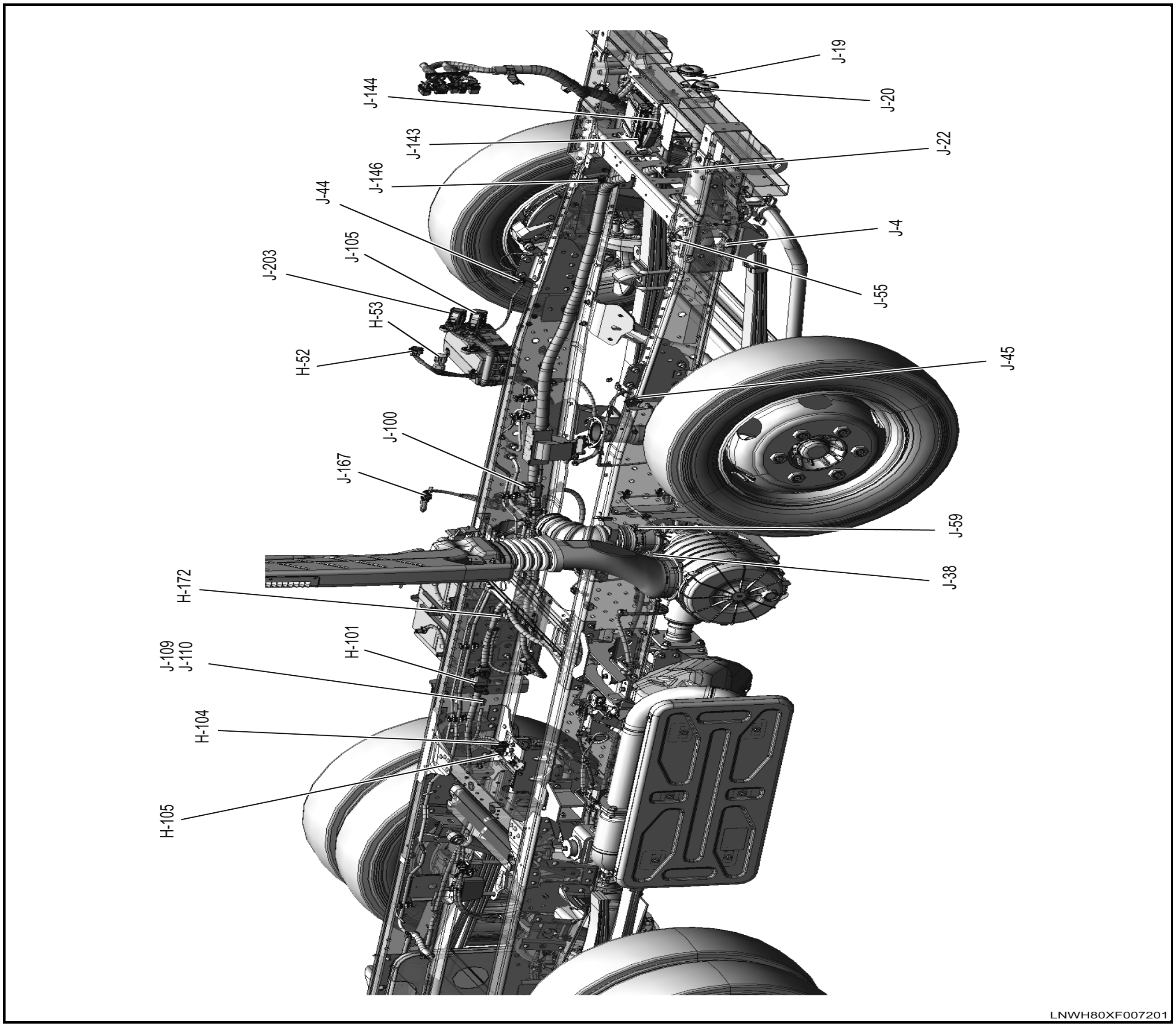
4709137

Harness Routing Views (Frame Harness Routing 1 of 6)


P-1
P-3
P-2
H-171
Relay Box
FL-1-FL-16
F-33-F-38
X-17, X-18, X-19, X-20-X-22
X-23, X-26, J-2
J-113, J-114, J-135
W/S-2, W/S-15, W/S-7
J-107
P-4
P-5
J-166
J-165
J-106
(H-96)
J-8
J-9
J-12
J-148
H-175
J-102
H-52
H-218
H-53
J-203
J-105
J-44
J-162
J-34
J-35
J-163
J-204
H-173
H-174
J-146
J-7
J-13
J-141
J-142
J-143
J-144
J-19
J-20
J-22
J-55
J-4
H-170
LNWG80XF010801

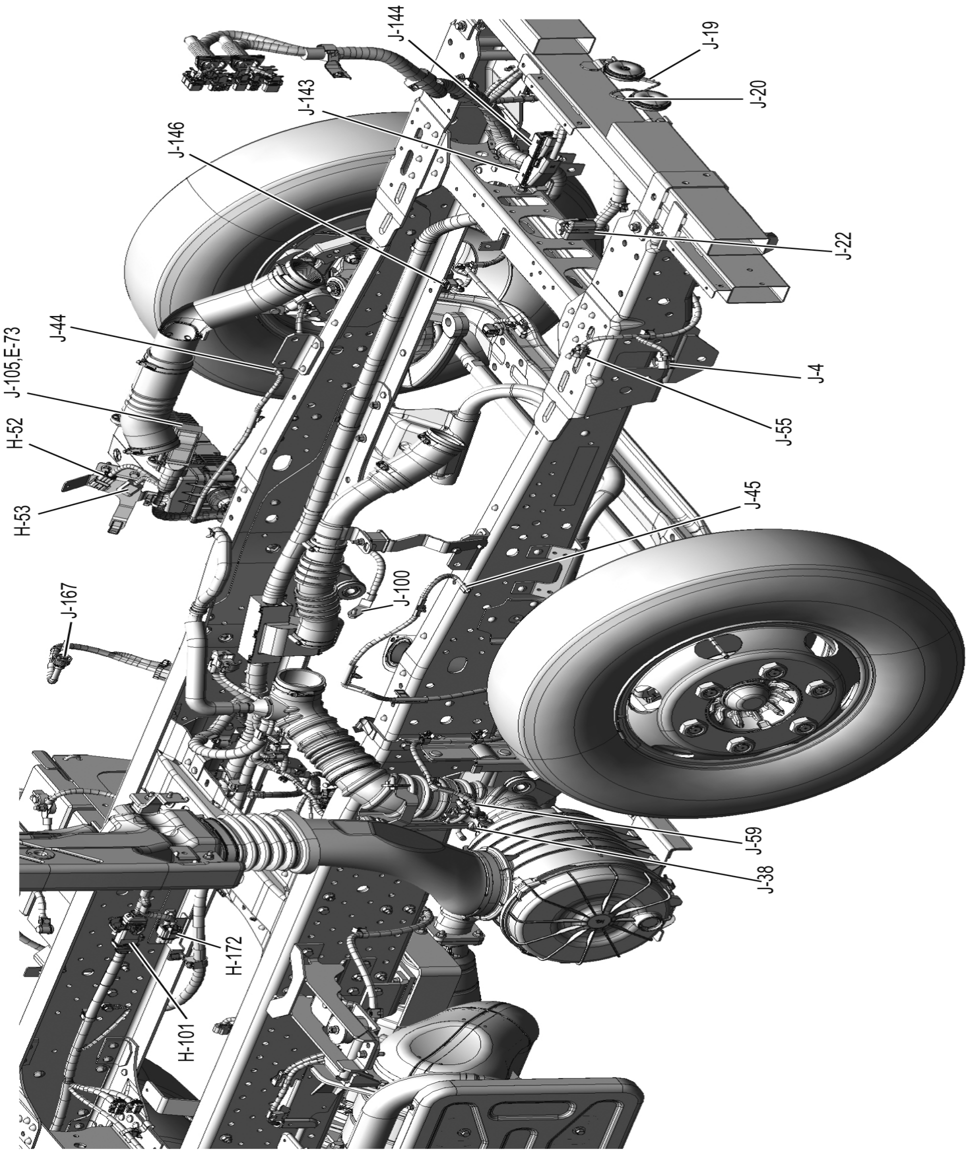
4500141

Harness Routing Views (Frame Harness Routing 2 of 6)


J-19
J-144
J-20
J-143
J-22
J-146
J-44
J-4
J-105
J-203
J-55
H-53
H-52
J-45
J-100
J-167
J-59
J-38
H-172
H-101
J-109
J-110
H-104
H-105
LNWH80XF007201

4709150

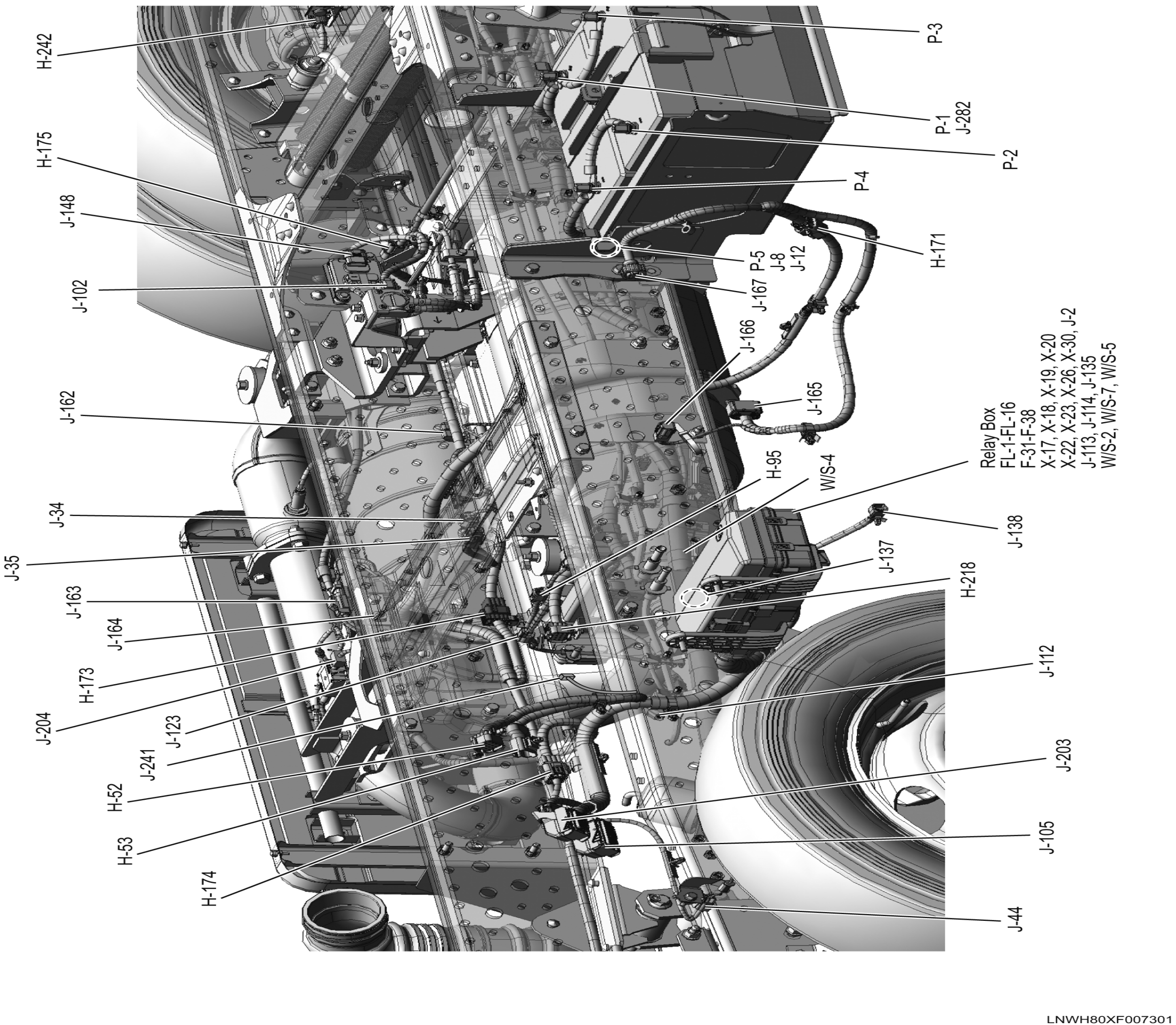
Harness Routing Views (Frame Harness Routing 2 of 6)


J-144
J-19
J-20
J-143
J-146
J-22
J-44
J-105,E-73
H-52
J-4
J-55
H-53
J-45
J-167
J-100
J-59
J-38
H-172
H-101

LNWF80XF025701

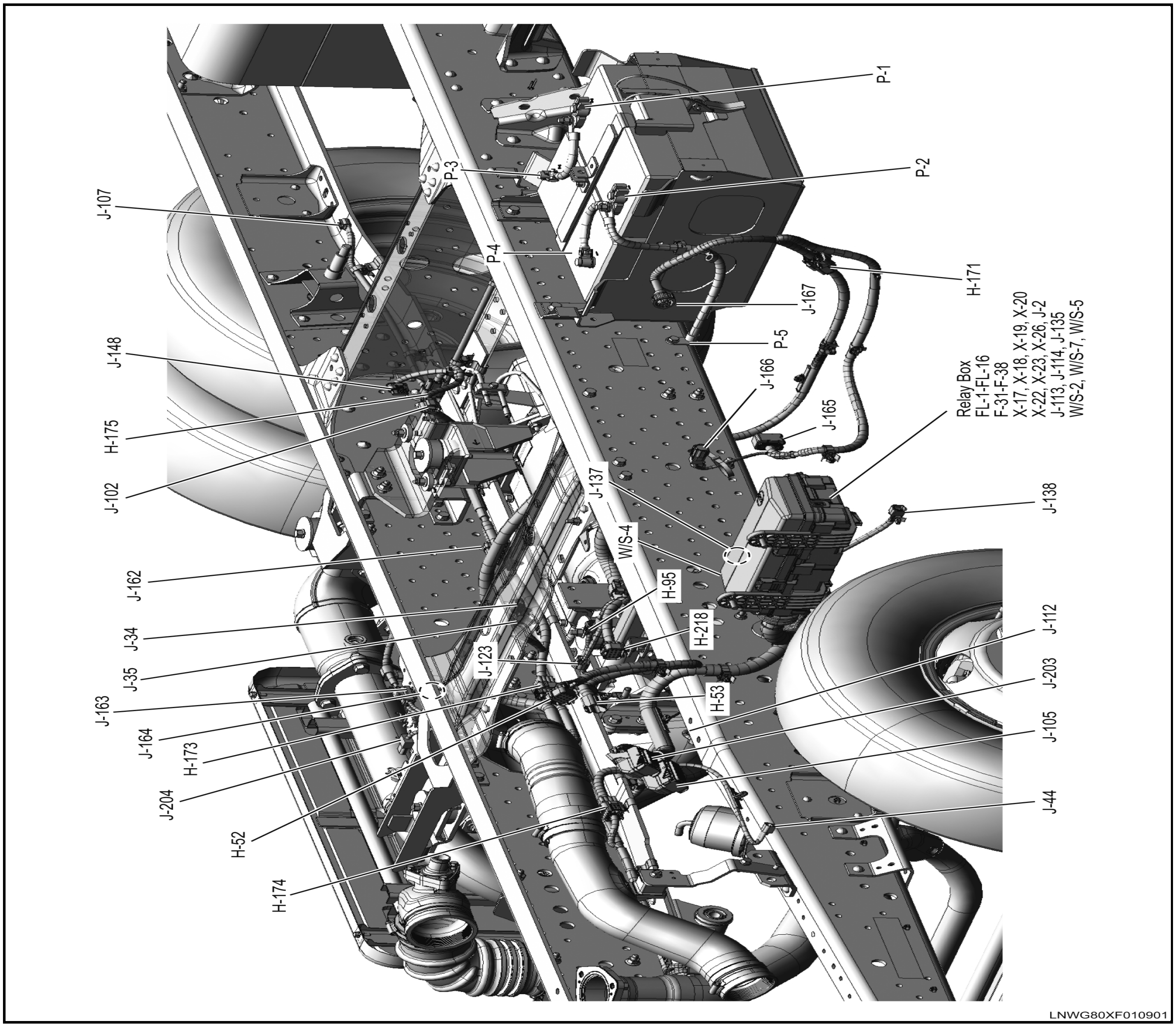
4500144

Harness Routing Views (Frame Harness Routing 3 of 6)


H-242
H-175
J-148
J-102
J-162
J-34
J-35
J-163
J-164
H-173
J-204
J-123
J-241
H-52
H-53
H-174
P-3
P-1
J-282
P-2
P-4
H-171
P-5
J-8
J-12
J-167
J-166
J-165
H-95
W/S-4
Relay Box
FL-1-FL-16
F-31-F-38
X-17, X-18, X-19, X-20
X-22, X-23, X-26, X-30, J-2
J-113, J-114, J-135
W/S-2, W/S-7, W/S-5
J-138
J-137
H-218
J-112
J-203
J-105
J-44
LNWH80XF007301

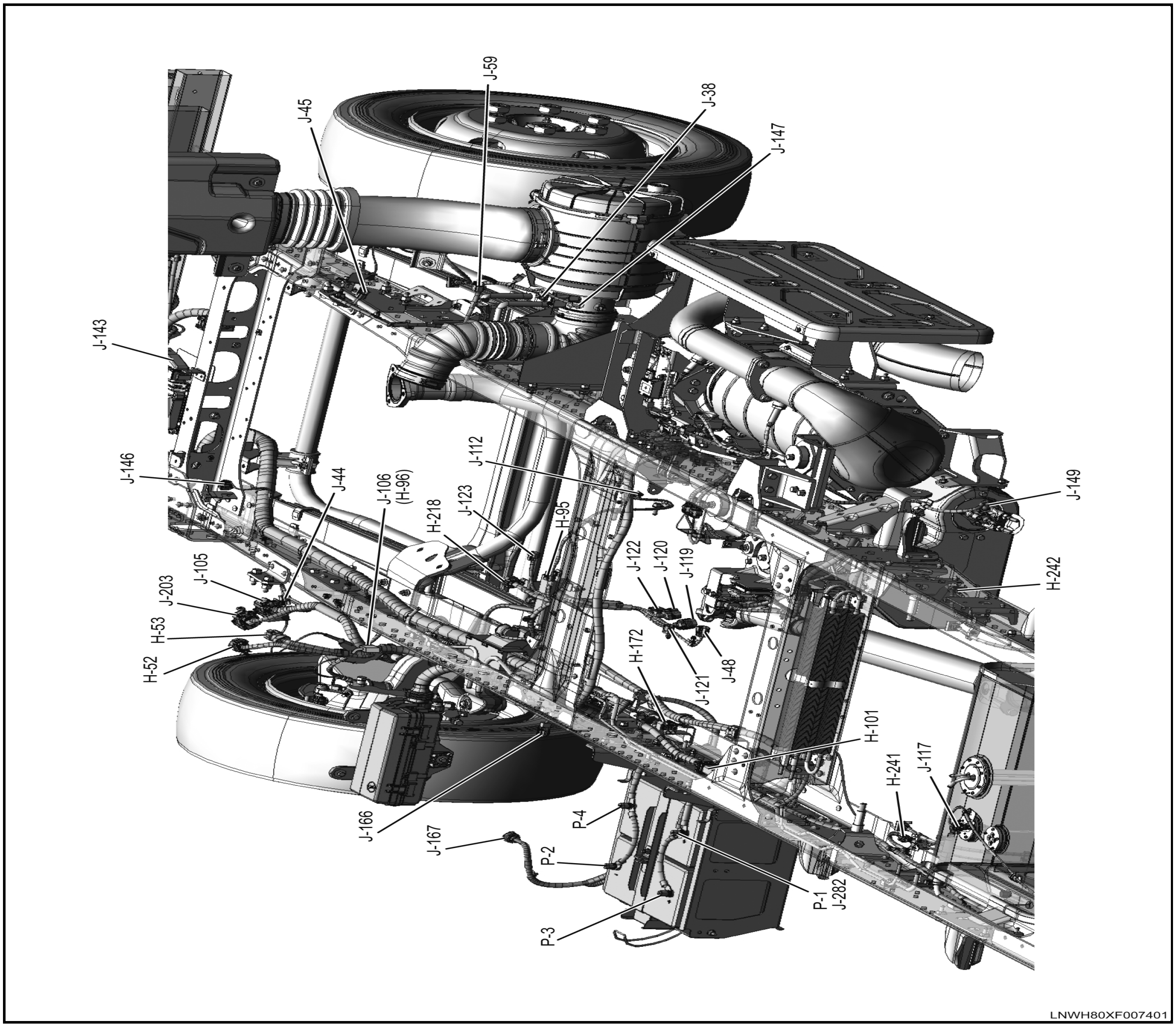
4709162

Harness Routing Views (Frame Harness Routing 3 of 6)


J-107
P-3
P-4
P-1
P-2
H-171
J-167
P-5
J-166
J-165
Relay Box
FL-1-FL-16
F-31-F-38
X-17, X-18, X-19, X-20
X-22, X-23, X-26, J-2
J-113, J-114, J-135
W/S-2, W/S-7, W/S-5
J-138
J-148
H-175
J-102
J-137
W/S-4
H-95
H-218
J-162
J-34
J-35
J-123
J-163
J-164
H-173
J-204
H-52
H-174
H-53
J-112
J-203
J-105
J-44
LNWG80XF010901

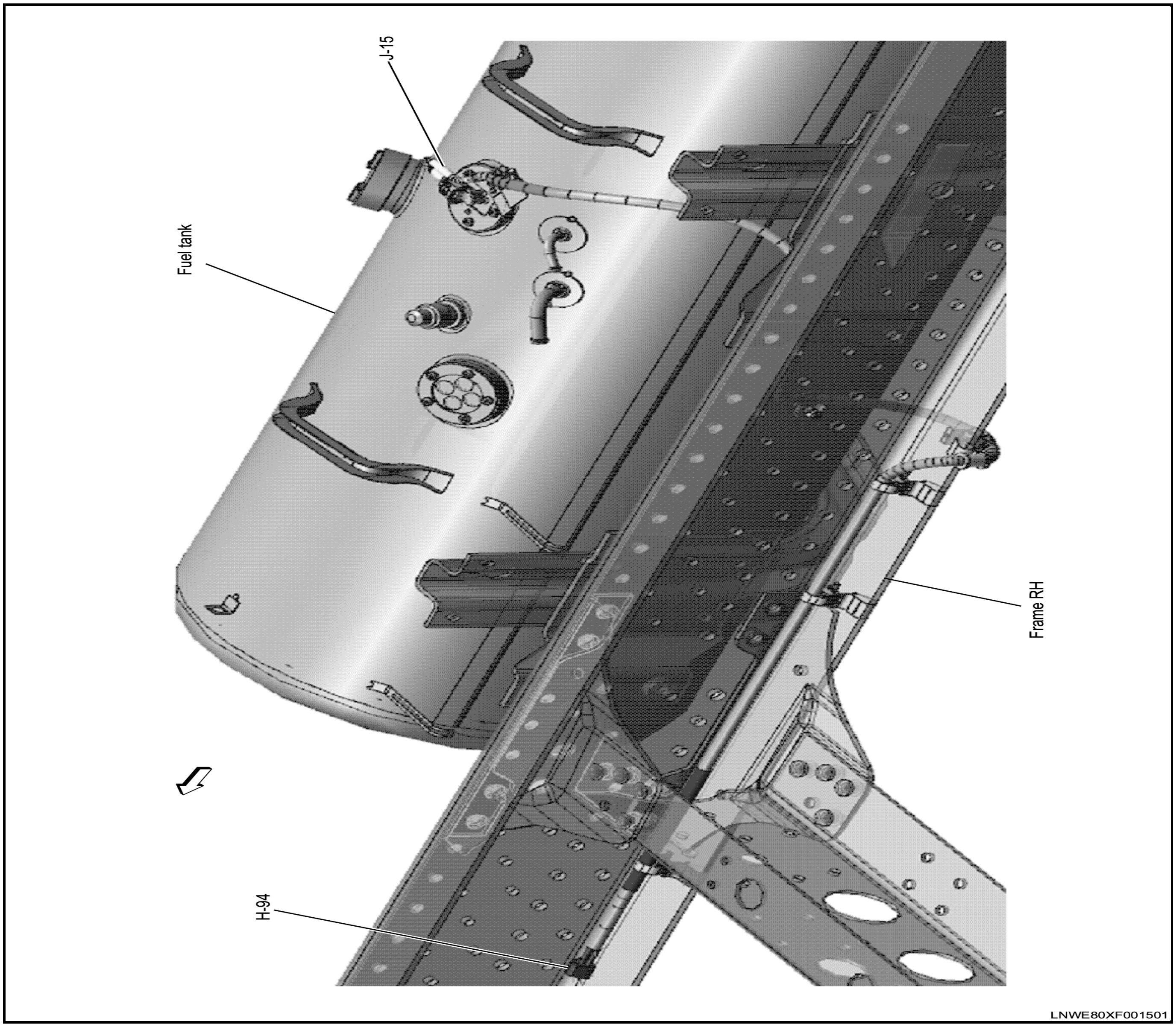
4500147

Harness Routing Views (Frame Harness Routing 4 of 6)


J-59
J-45
J-38
J-147
J-143
J-146
J-44
J-106
(H-96)
J-112
H-218
J-123
H-95
J-105
J-203
H-53
H-52
J-122
J-120
J-119
J-149
H-242
H-172
J-121
J-48
H-101
H-241
J-117
J-166
J-167
P-4
P-2
P-3
P-1
J-282
LNWH80XF007401

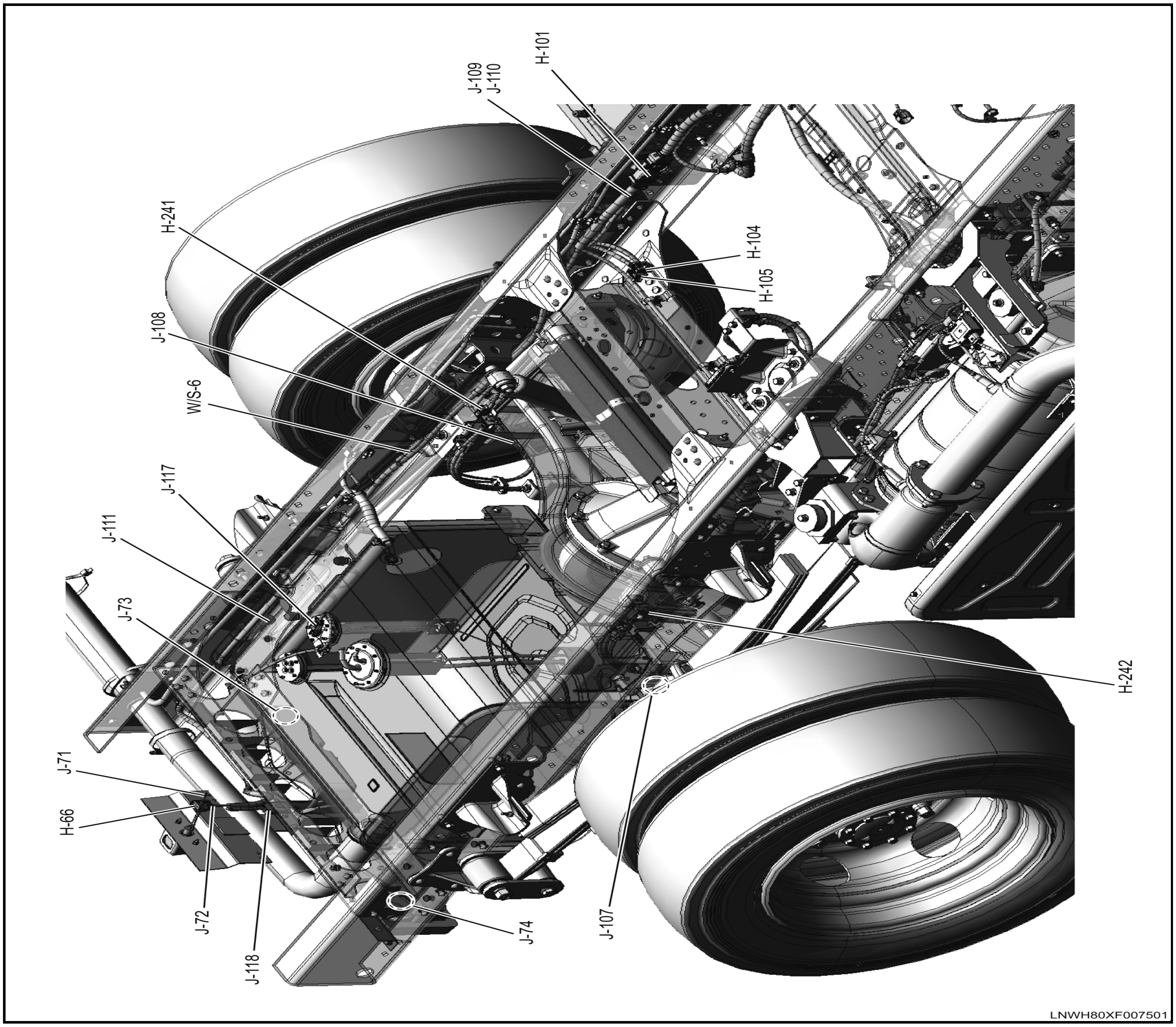
4709175

Harness Routing Views (Frame Harness Routing 5 of 6)


J-15
Fuel tank
Frame RH
H-94
LNWE80XF001501

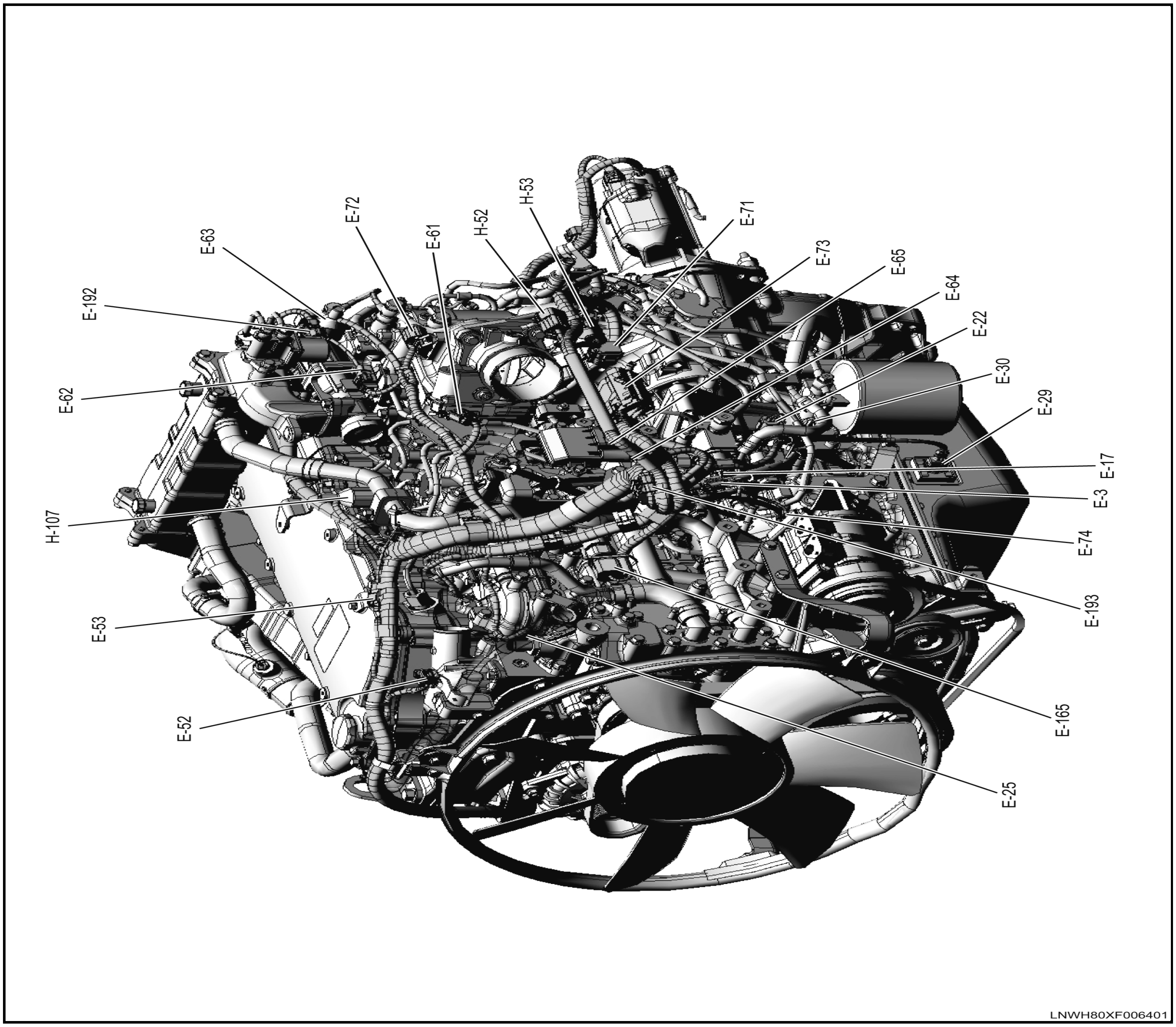
4502186

Harness Routing Views (Frame Harness Routing 6 of 6)


H-101
J-109
J-110
H-241
H-104
H-105
J-108
W/S-6
J-117
J-111
J-73
H-242
J-71
H-66
J-72
J-118
J-74
J-107
LNWH80XF007501

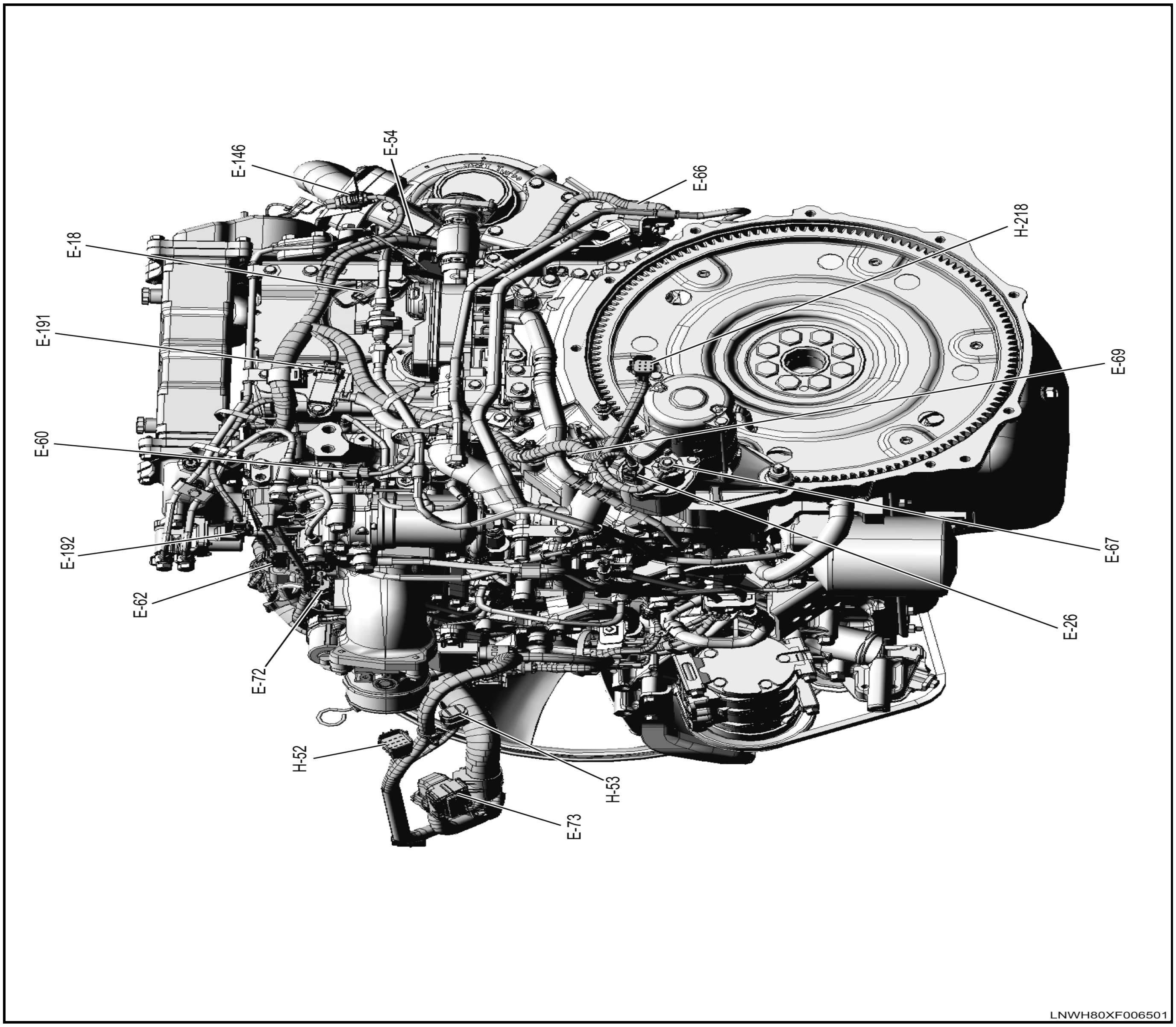
4709190

Harness Routing Views (Engine Harness Routing 1 of 6)


E-192
E-63
E-72
E-61
H-52
H-53
E-71
E-73
E-65
E-64
E-22
E-30
E-29
E-17
E-3
E-74
E-193
E-165
E-25
E-62
H-107
E-53
E-52
LNWH80XF006401

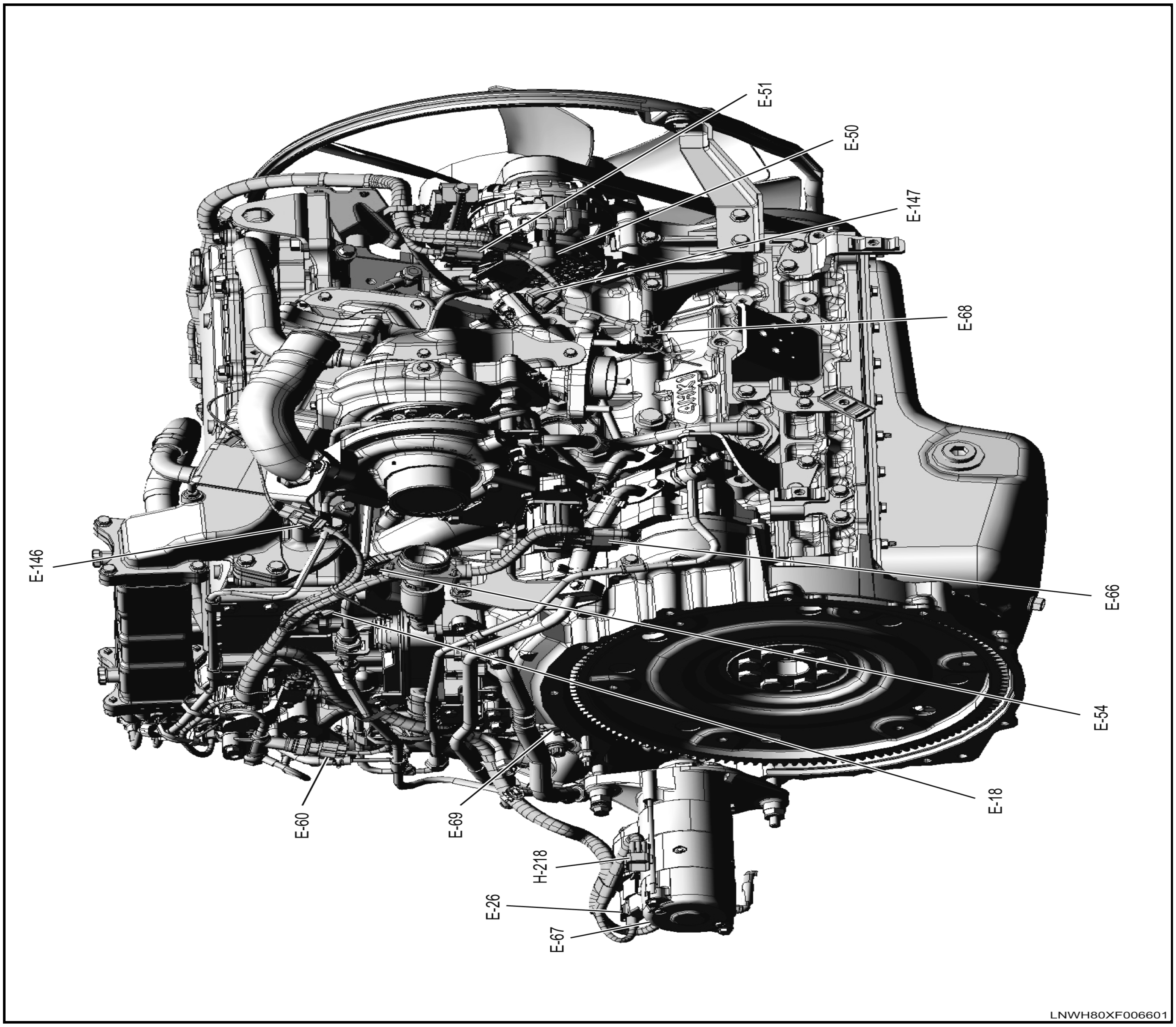
4709216

Harness Routing Views (Engine Harness Routing 2 of 6)


E-146
E-54
E-66
H-218
E-18
E-191
E-69
E-60
E-192
E-67
E-62
E-26
E-72
H-52
H-53
E-73
LNWH80XF006501

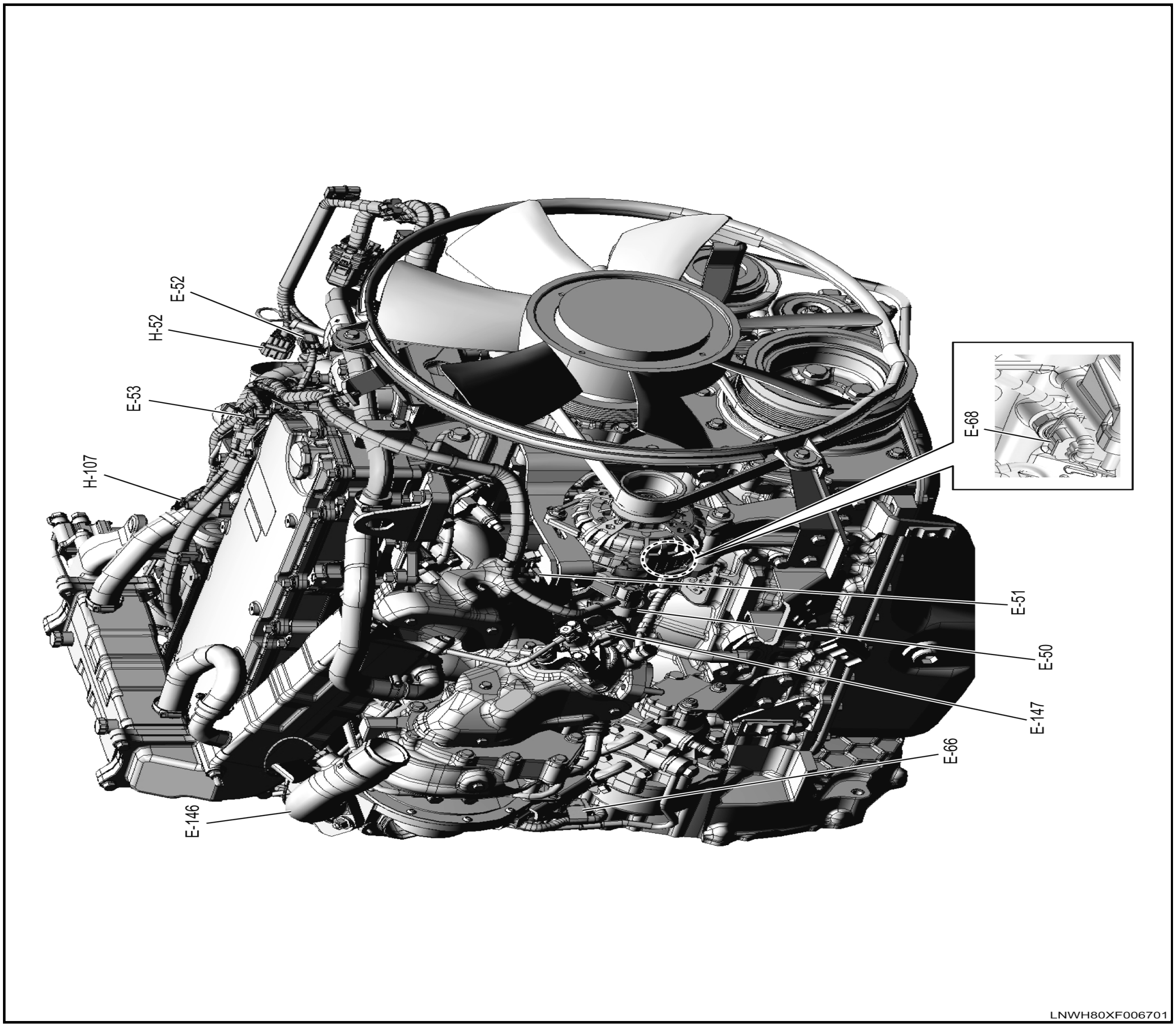
4709240

Harness Routing Views (Engine Harness Routing 3 of 6)


E-51
E-50
E-147
E-68
E-146
E-66
E-54
E-18
E-60
E-69
H-218
E-26
E-67
LNWH80XF006601

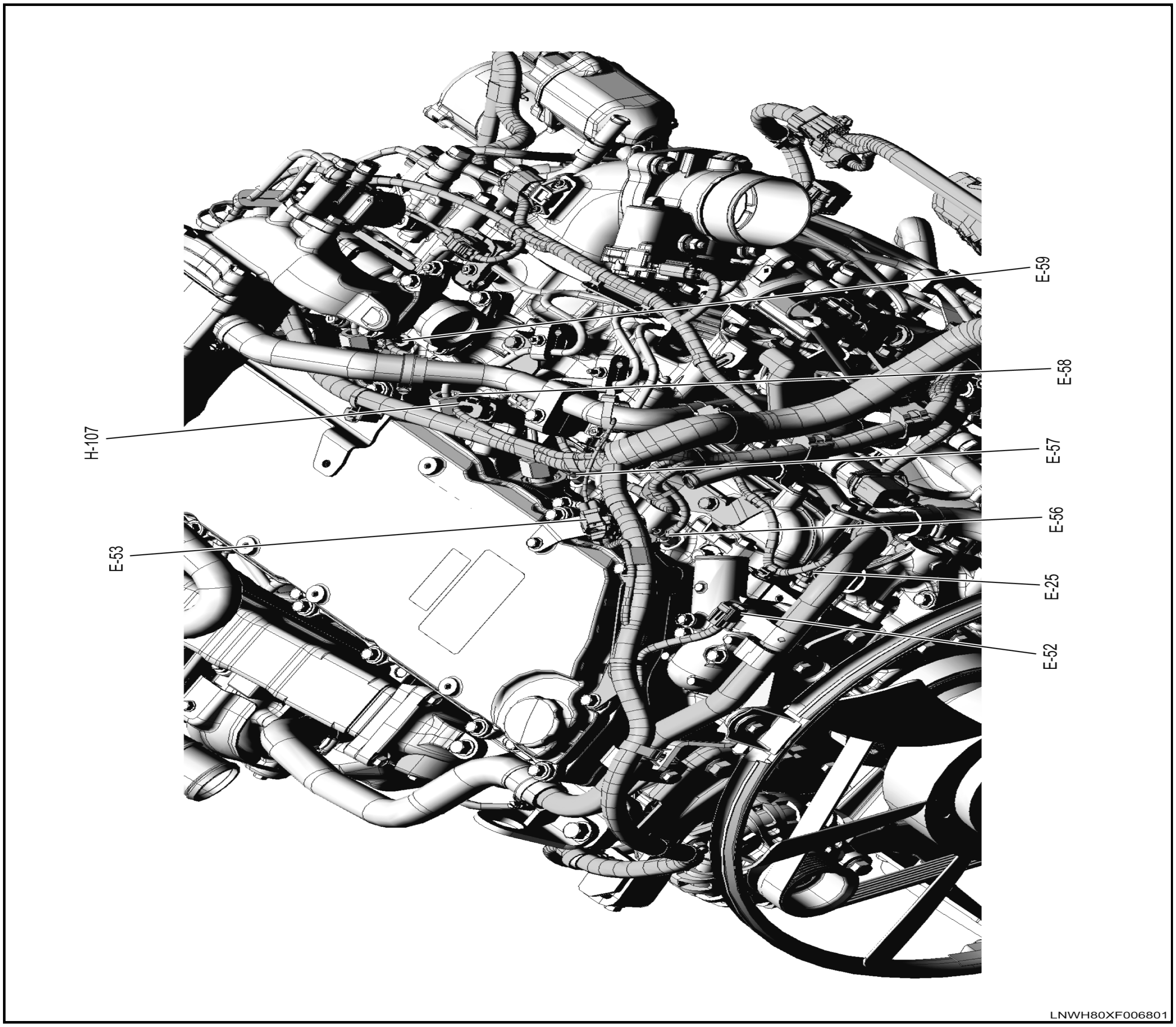
4709259

Harness Routing Views (Engine Harness Routing 4 of 6)


E-52
H-52
E-53
H-107
E-68
E-51
E-50
E-147
E-66
E-146
LNWH80XF006701

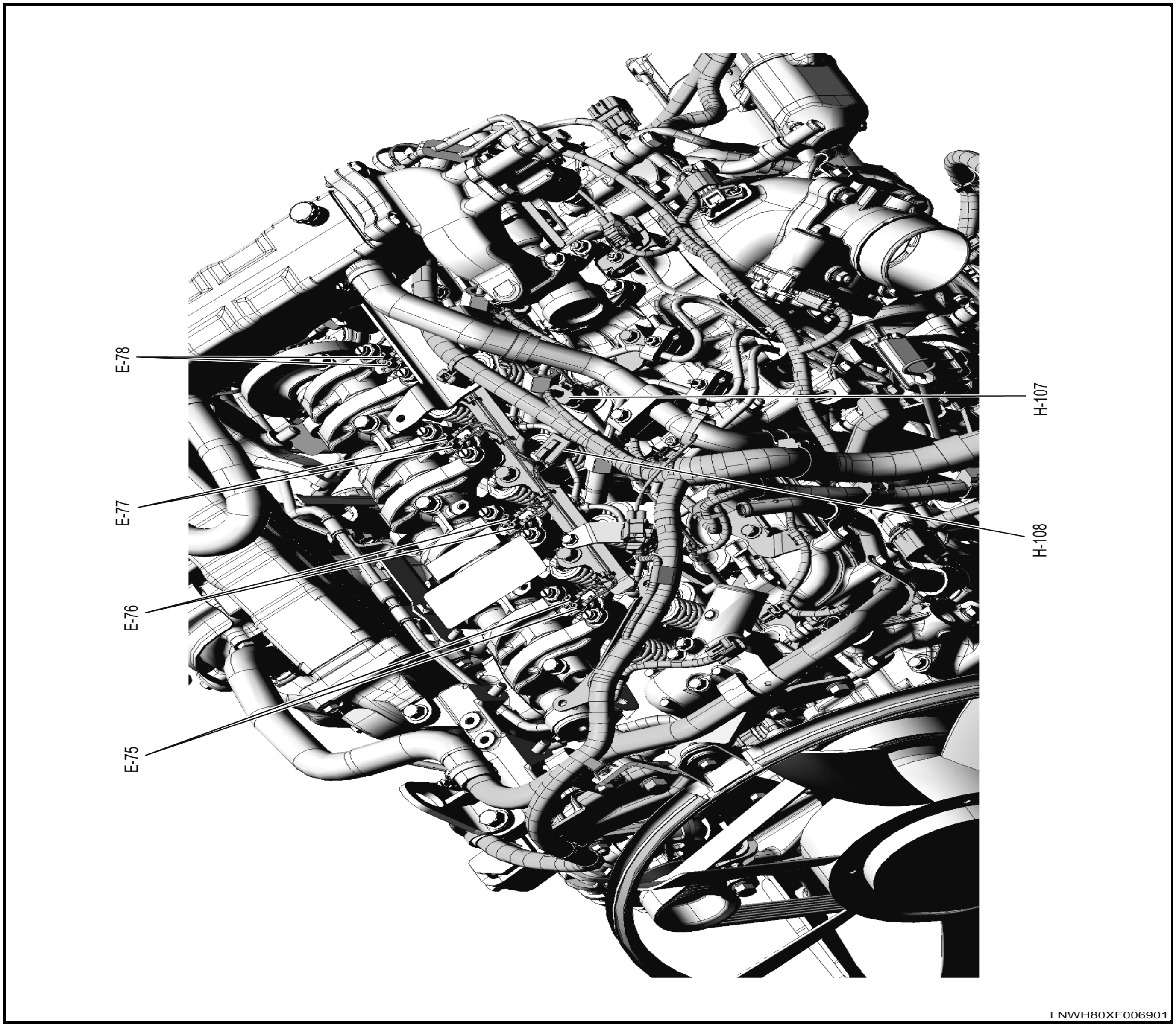
4709282

Harness Routing Views (Engine Harness Routing 5 of 6)


E-59
E-58
H-107
E-57
E-56
E-53
E-25
E-52
LNWH80XF006801

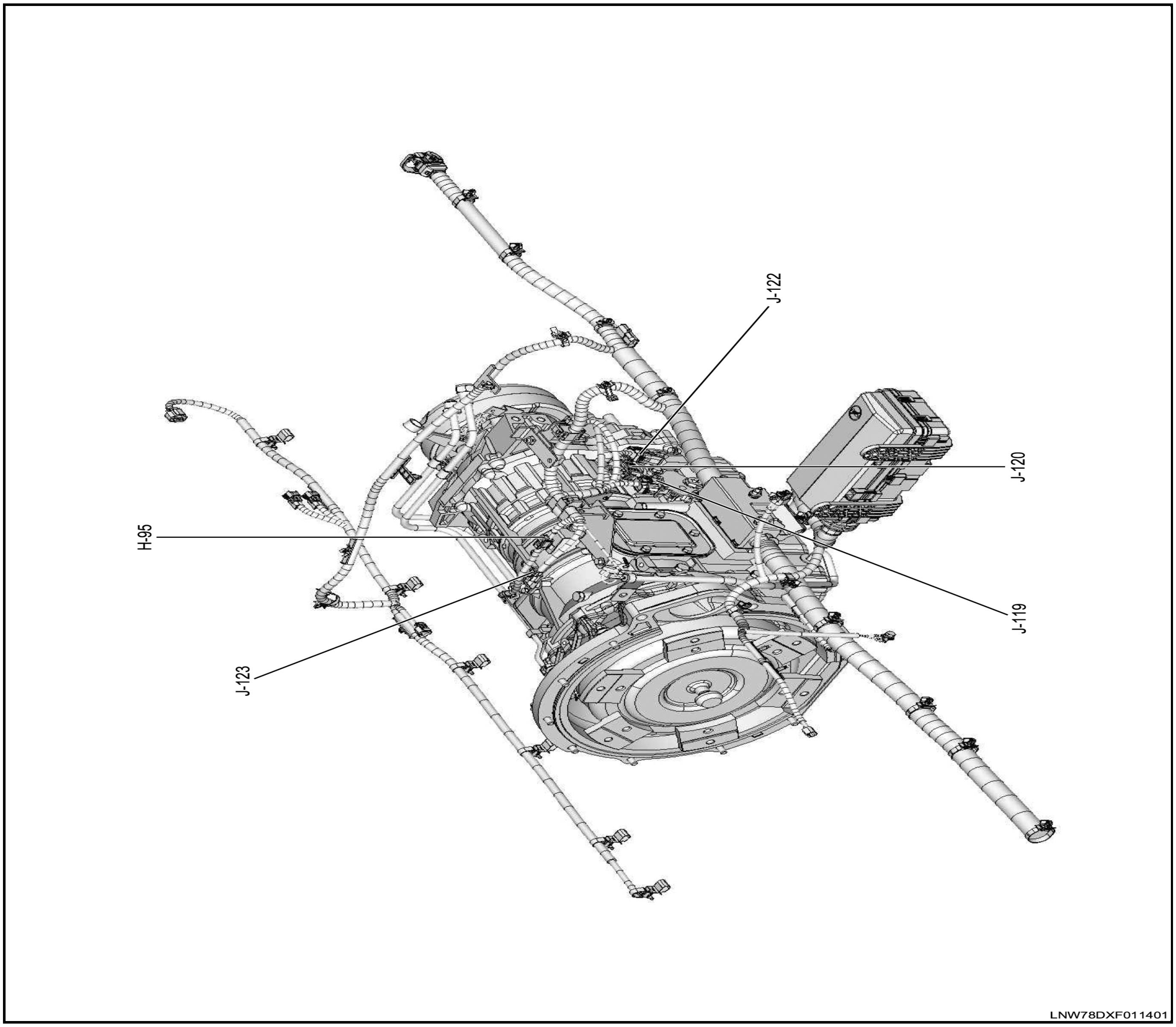
4709295

Harness Routing Views (Engine Harness Routing 6 of 6)


E-78
E-77
E-76
E-75
H-107
H-108
LNWH80XF006901

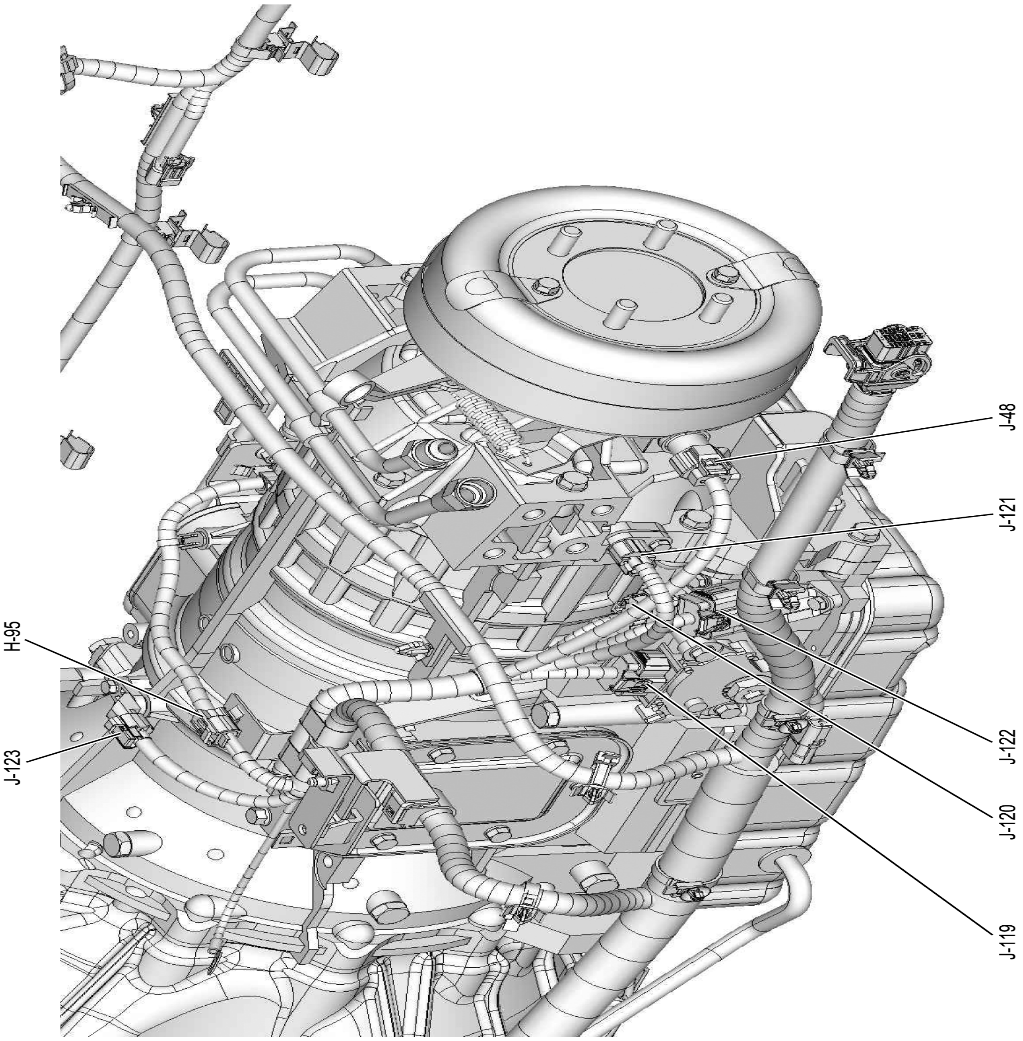
4709312

Harness Routing Views (Transmission Harness Routing 1 of 3)


J-122
J-120
H-95
J-119
J-123
LNW78DXF011401

4502209

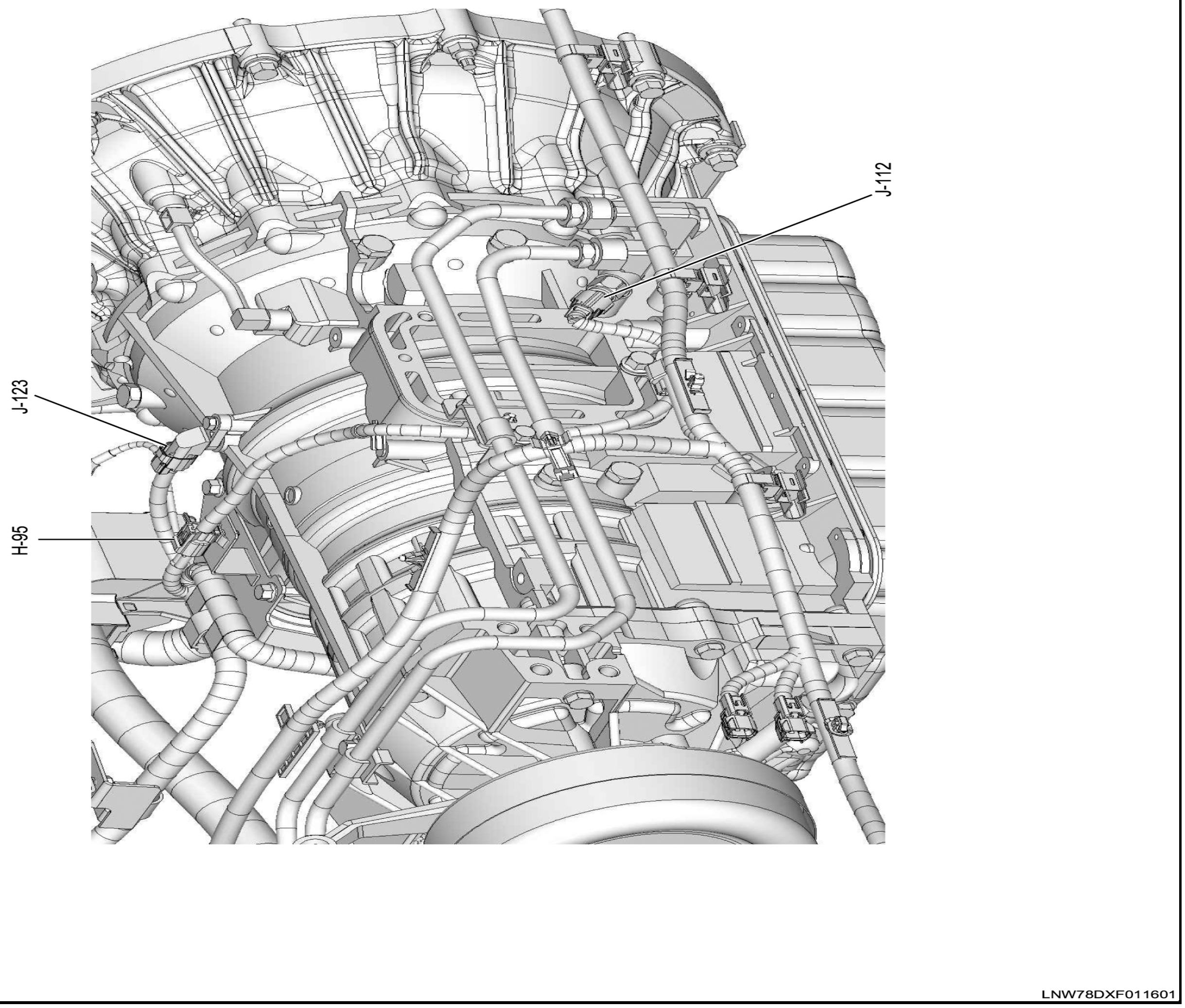
Harness Routing Views (Transmission Harness Routing 2 of 3)


J-48
J-121
H-95
J-122
J-123
J-120
J-119

LNW78DXF011501

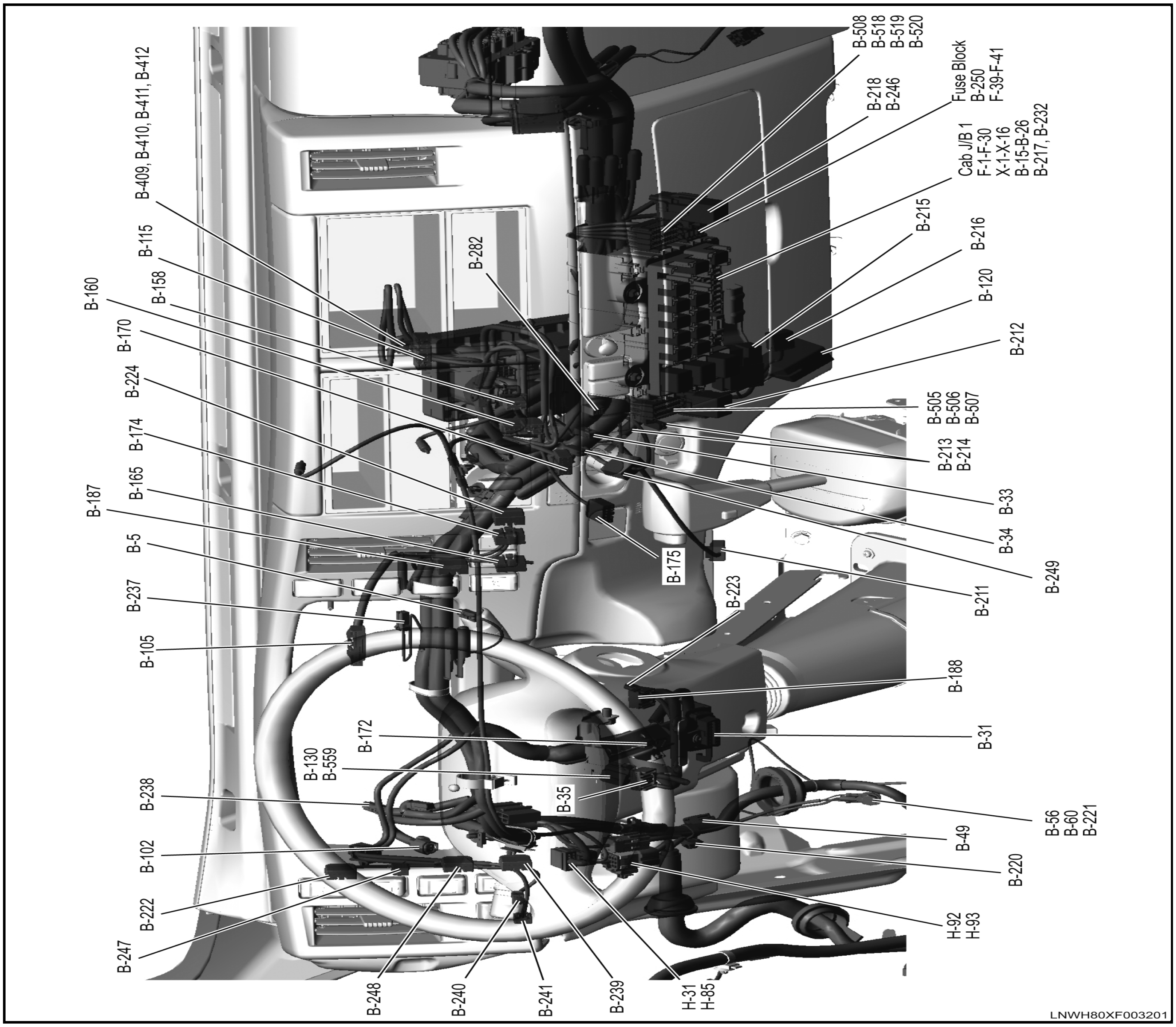
4502211

Harness Routing Views (Transmission Harness Routing 3 of 3)


J-112
J-123
H-95
LNW78DXF011601

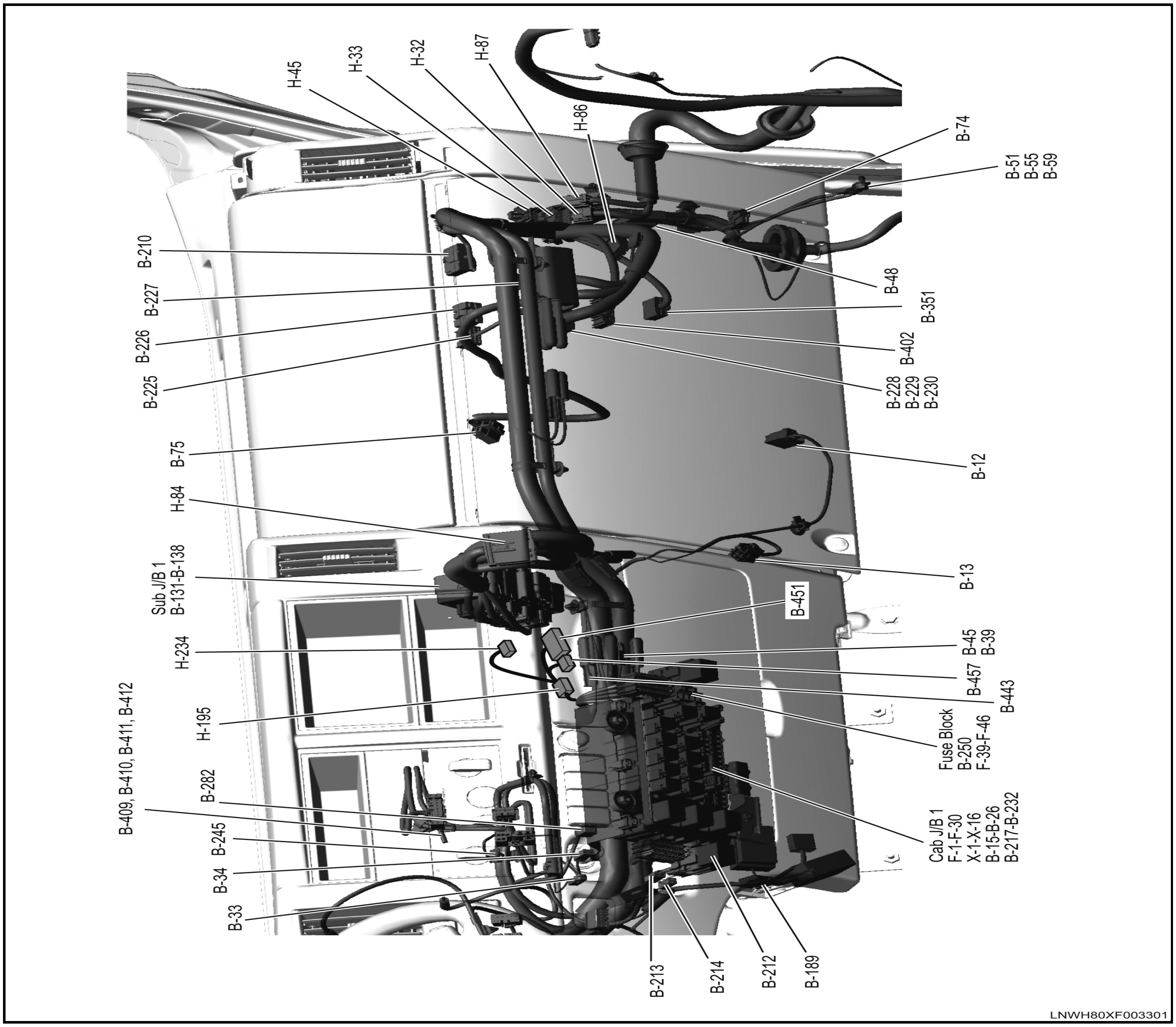
4502214

Harness Routing Views (Instrument Panel Harness Routing 1 of 2)


B-409, B-410, B-411, B-412
B-115
B-158
B-160
B-170
B-224
B-174
B-165
B-187
B-5
B-237
B-105
B-238
B-130
B-559
B-172
B-102
B-222
B-247
B-248
B-240
B-241
B-239
H-31
H-85
B-35
B-282
B-175
B-223
B-508
B-518
B-519
B-520
B-218
B-246
Fuse Block
B-250
F-39-F-41
Cab J/B 1
F-1-F-30
X-1-X-16
B-15-B-26
B-217, B-232
B-215
B-216
B-120
B-212
B-505
B-506
B-507
B-213
B-214
B-33
B-34
B-249
B-211
B-188
B-31
B-56
B-60
B-221
B-49
B-220
H-92
H-93
LNWH80XF003201

4709326

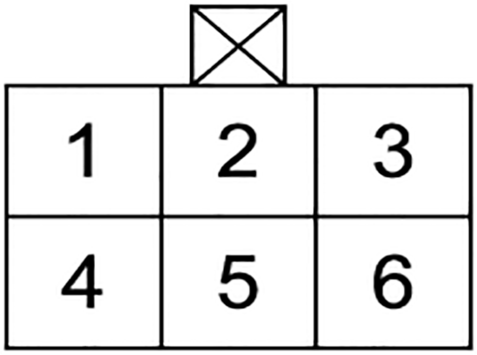
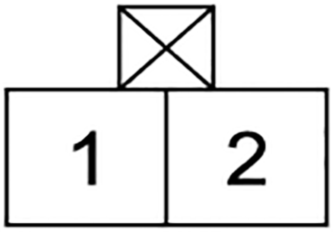
Harness Routing Views (Instrument Panel Harness Routing 2 of 2)

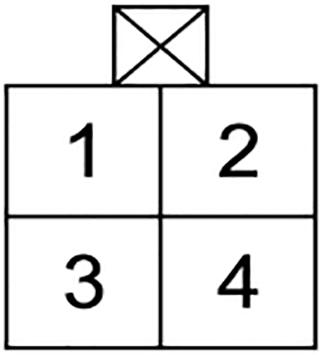
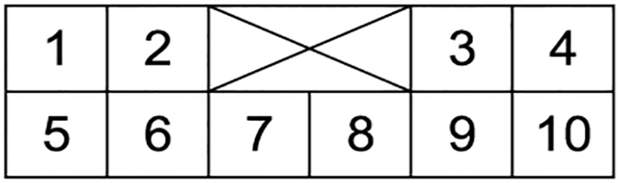

H-45
H-33
H-32
H-87
H-86
B-74
B-51
B-55
B-59
B-210
B-227
B-226
B-225
B-48
B-351
B-402
B-228
B-229
B-230
B-75
B-12
H-84
Sub J/B 1
B-131-B-138
B-13
B-451
H-234
B-45
B-39
B-457
B-443
H-195
Fuse Block
B-250
F-39-F-46
B-409, B-410, B-411, B-412
B-282
Cab J/B 1
F-1-F-30
X-1-X-16
B-15-B-26
B-217-B-232
B-245
B-34
B-33
B-213
B-214
B-212
B-189
LNWH80XF003301

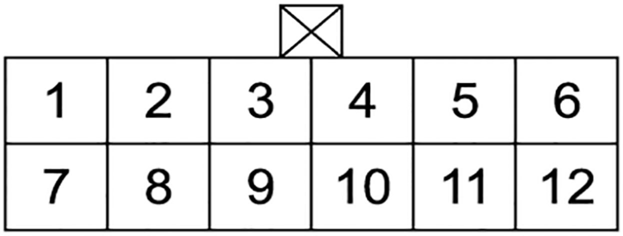
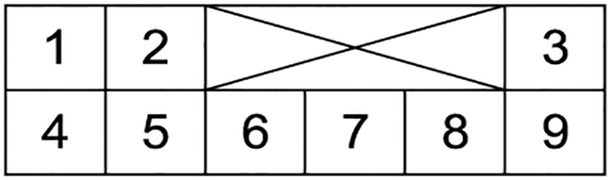
4709340

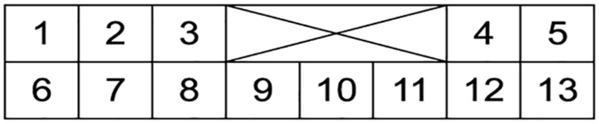
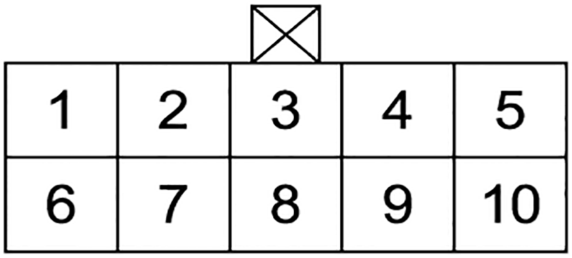
Visual Identification

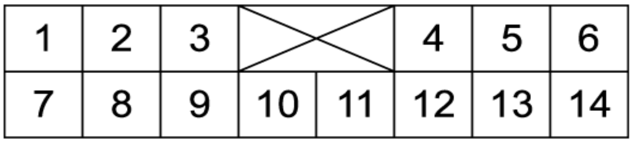
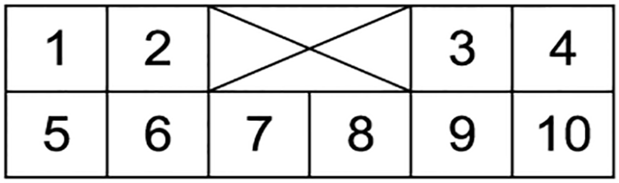
Connector List

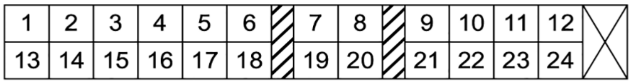
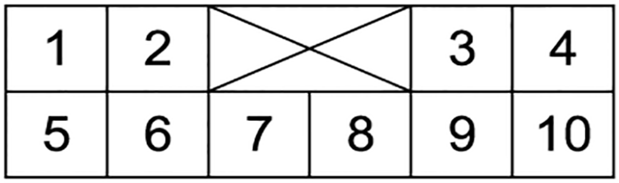
No.	Connector Face
B-5 Gray	 4497853 Accelerator Pedal Position Sensor
B-12 White	 4497871 Blower Motor

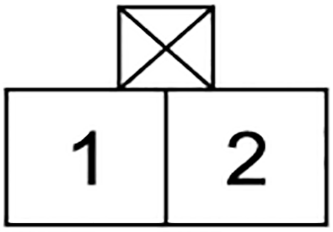
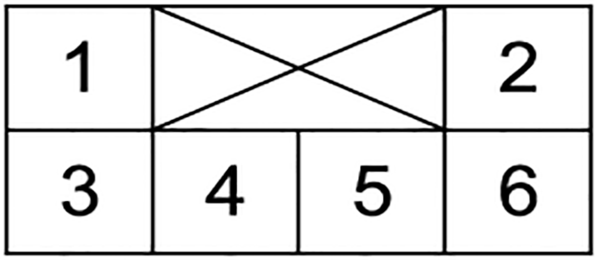
No.	Connector Face
B-13 White	 4497861 Blower Resistor
B-15 Blue	 4497867 Cab J/B1.A

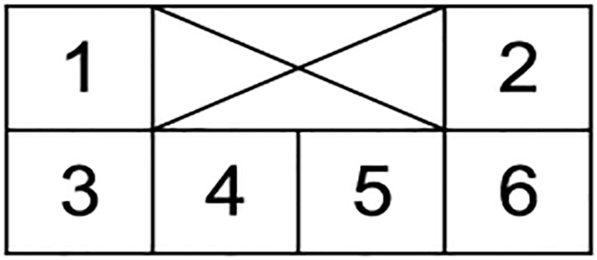
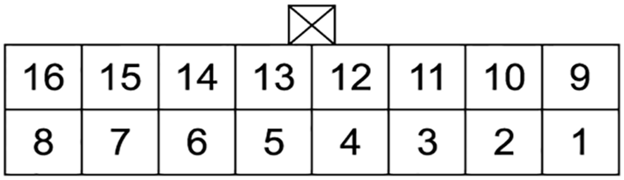
No.	Connector Face
B-16 White	 1 2 3 4 5 6 7 8 9 10 11 12 4497869 Cab J/B1.B
B-17 White	 4497873 Cab J/B1.D

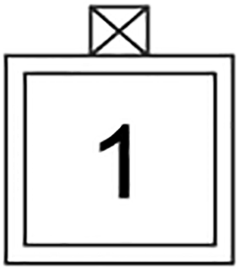
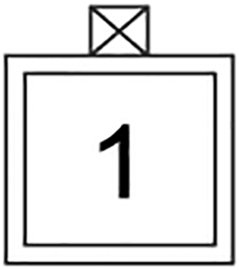
No.	Connector Face
B-18 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 4497876 Cab J/B1.E
B-19 White	 1 2 3 4 5 6 7 8 9 10 4497881 Cab J/B1.F

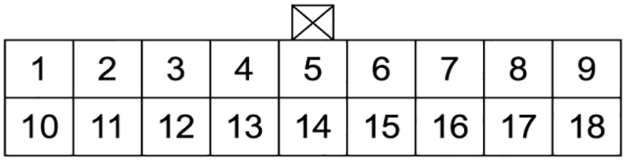
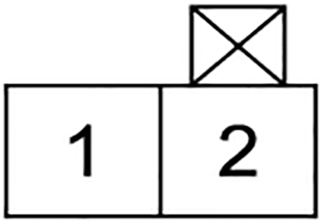
No.	Connector Face
B-20 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 4497854 Cab J/B1.G
B-21 White	 1 2 3 4 5 6 7 8 9 10 4497867 Cab J/B1.H

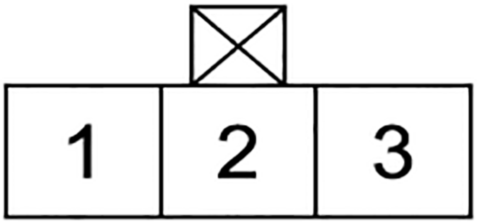
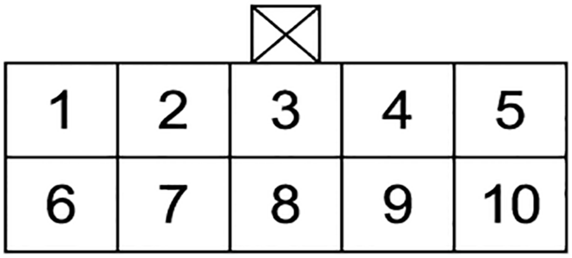
No.	Connector Face
B-22 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 4497863 Cab J/B1.J
B-23 White	 1 2 3 4 5 6 7 8 9 10 4497867 Cab J/B1.K

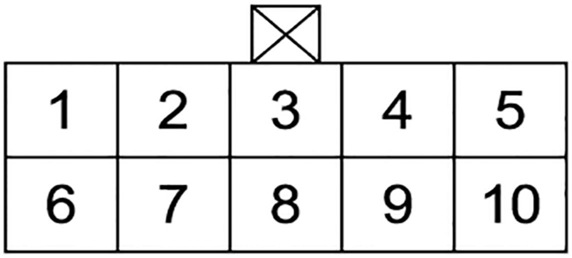
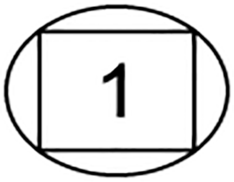
No.	Connector Face
B-24 White	 4497871 Cab J/B1.L
B-25 White	 4497878 Cab J/B1.N

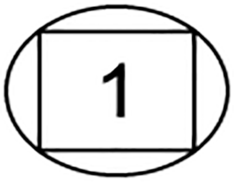
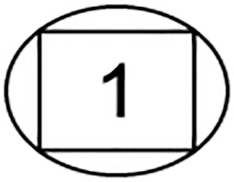
No.	Connector Face
B-26 White	 1 2 3 4 5 6 4497878 Cab J/B1.P
B-31 Gray	 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 4497882 Data Link Connector

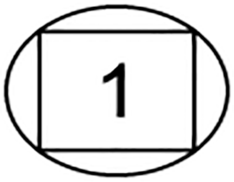
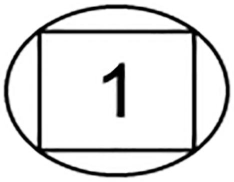
No.	Connector Face
B-33 White	 4497887 Cigarette Lighter.A
B-34 Black	 4497887 Cigarette Lighter.B

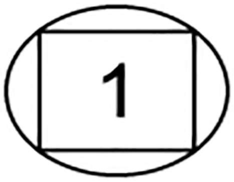
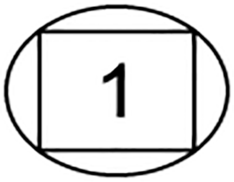
No.	Connector Face
B-35 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4497956 Combination Switch
B-39 Black	 4497979 Diode 1

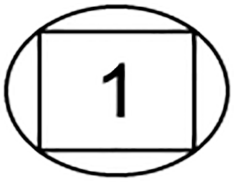
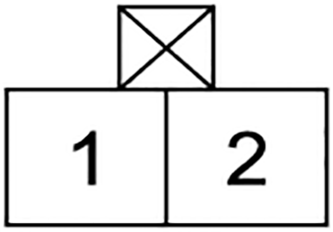
No.	Connector Face
B-45 Orange	 4497982 Diode 7
B-48 White	 4497881 Earth Joint 10P1

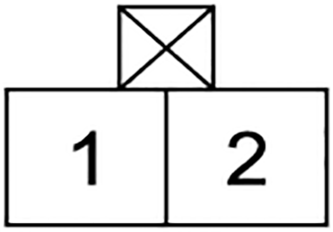
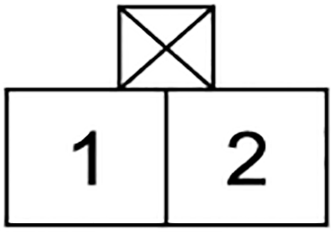
No.	Connector Face
B-49 White	 1 2 3 4 5 6 7 8 9 10 4497881 Earth Joint 10P2
B-51	 Earth Body 15

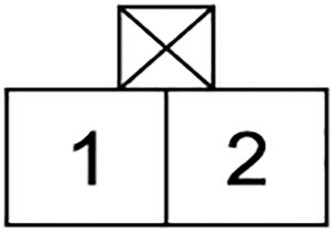
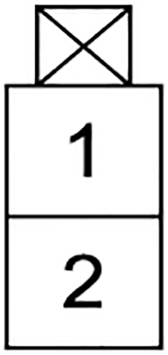
No.	Connector Face
B-52	 4497888 Earth Body 17
B-53	 4497888 Earth Body 18

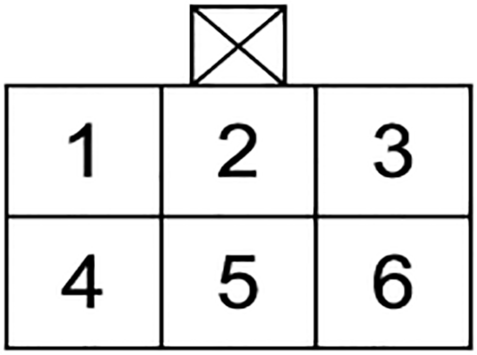
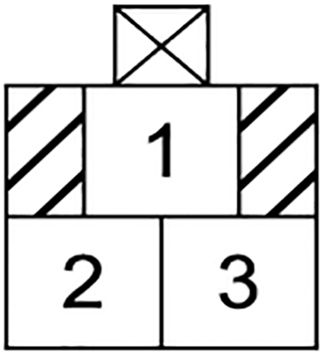
No.	Connector Face
B-54	 4497888 Earth Body 19
B-55	 4497888 Earth Body 22

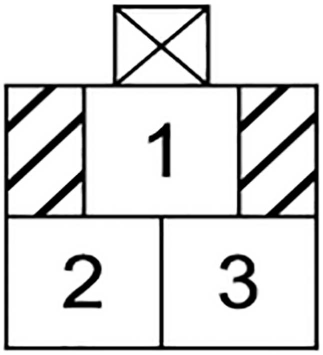
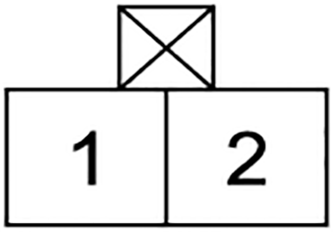
No.	Connector Face
B-56	 4497888 Earth Body 3
B-59	 4497888 Earth Body 8

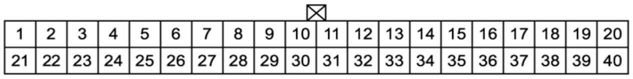
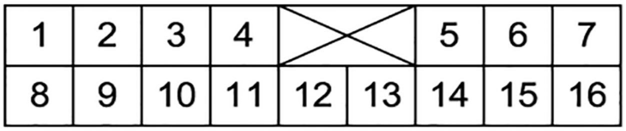
No.	Connector Face
B-60	 4497888 Earth Body 9
B-70 Gray	 4497871 Front Position Light (LH)

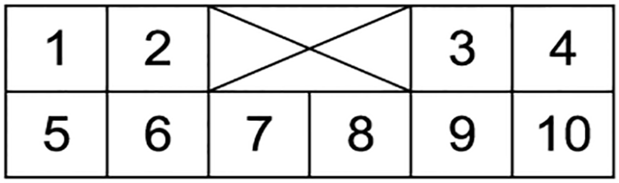
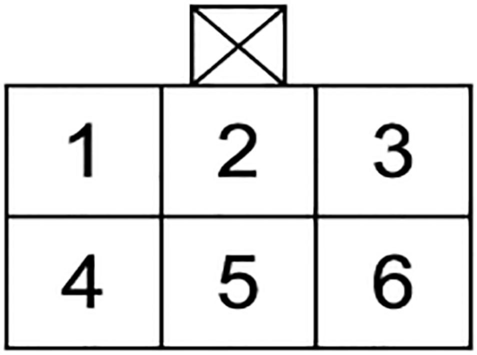
No.	Connector Face
B-71 Gray	 Front Position Light (RH)
B-72 Gray	 Front Turn Light (LH)

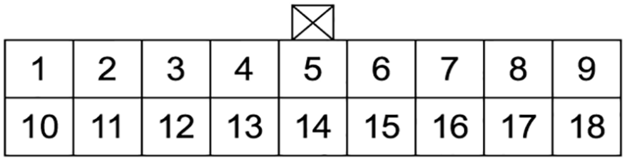
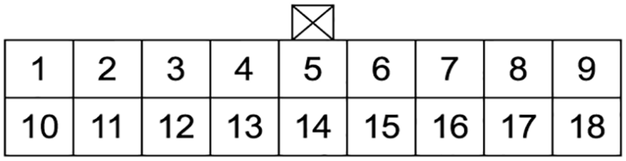
No.	Connector Face
B-73 Gray	 4497871 Front Turn Light (RH)
B-74 White	 4497990 Front Washer Motor

No.	Connector Face
B-75 White	 4497853 Front Wiper Motor
B-80 Black	 4497992 Headlight (LH)

No.	Connector Face
B-81 Black	 4497992 Headlight (RH)
B-102 Gray	 4497871 Brake Fluid Level Switch

No.	Connector Face
B-105 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 4497988 IP Cluster.A
B-115 Gray	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4497989 Audio

No.	Connector Face
B-120 Gray	 1 2 3 4 5 6 7 8 9 10 4497867 RS232C ch1
B-130 White	 1 2 3 4 5 6 4497853 Ignition Switch 1

No.	Connector Face
B-131 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4497956 Sub J/B1.A
B-132 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4497956 Sub J/B1.B

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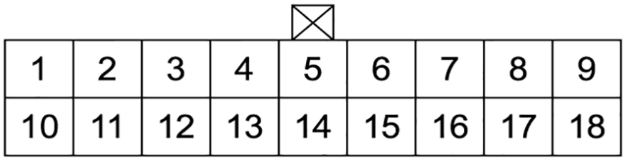
Gray</td><td>
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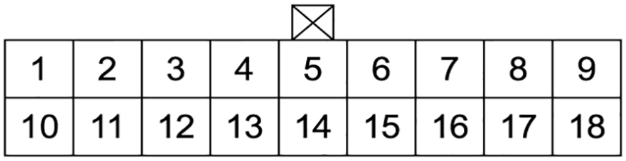
Blue</td><td>
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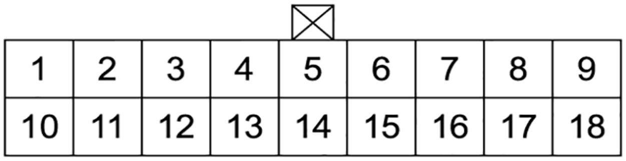
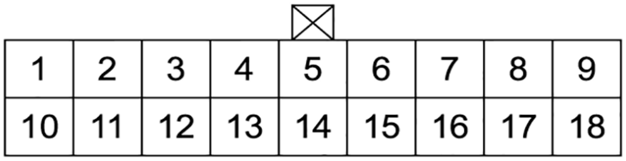
B-135 Red	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4497956 Sub J/B1.E
B-136 Brown	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4497956 Sub J/B1.F

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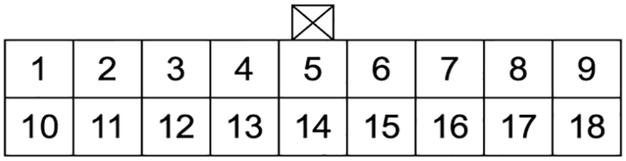
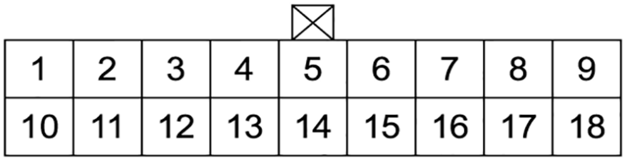
B-137 Green	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4497956 Sub J/B1.G
B-138 Orange	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4497956 Sub J/B1.H

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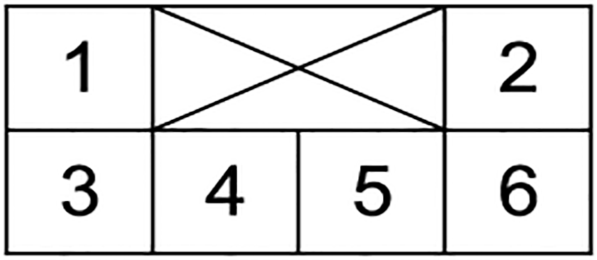
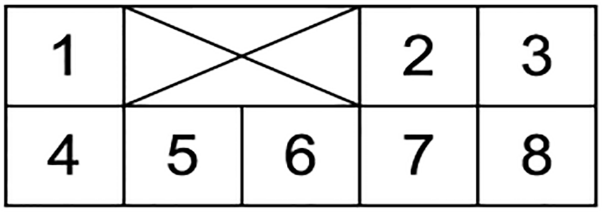
B-158 White	 4497878 A/C Switch
B-160 White	 4498006 Blower Switch

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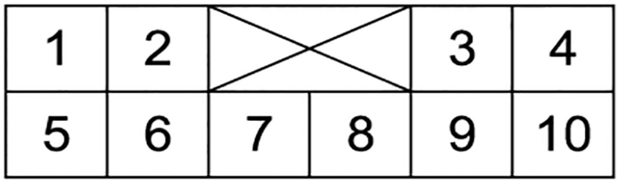
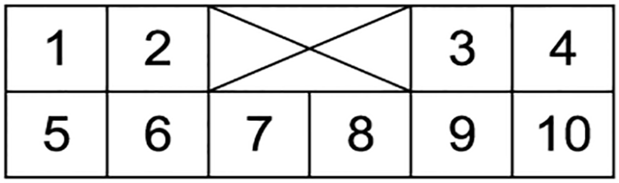
B-165 Blue	 1 2 3 4 5 6 7 8 9 10 4497867 DPF Regeneration Switch
B-170 Black	 1 2 3 4 5 6 7 8 9 10 4497867 Hazard Switch

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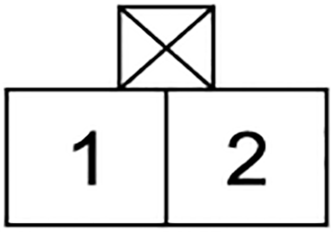
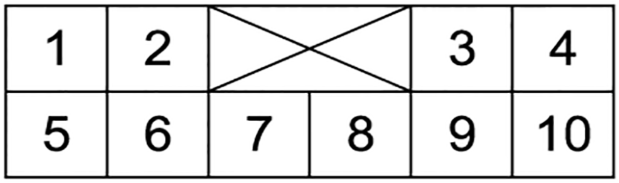
B-172 White	 4497871 Key Reminder Switch
B-174 Gray	 4497867 Mirror Heater Switch

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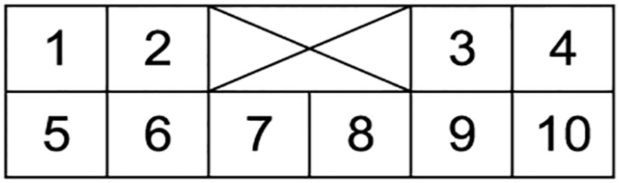
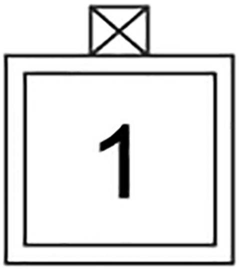
B-175 White	 4497867 Rear Power Window (LH)
B-184 Gray	 4497887 Vacuum Tank Switch

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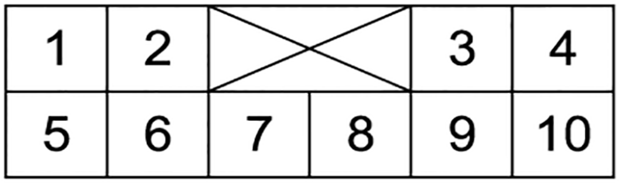
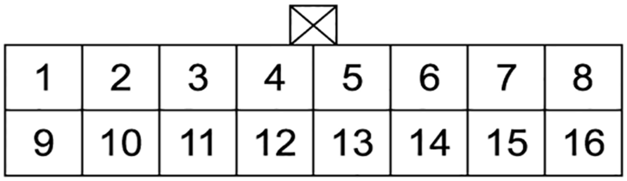
B-187 Orange	 1 2 3 4 5 6 7 8 9 10 4497867 Rear Window Lock Switch
B-188 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4498001 Wiper and Exhaust Brake SW

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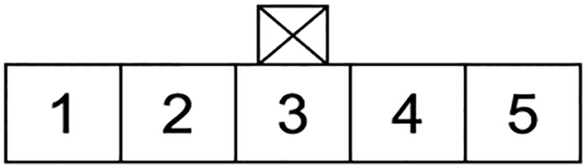
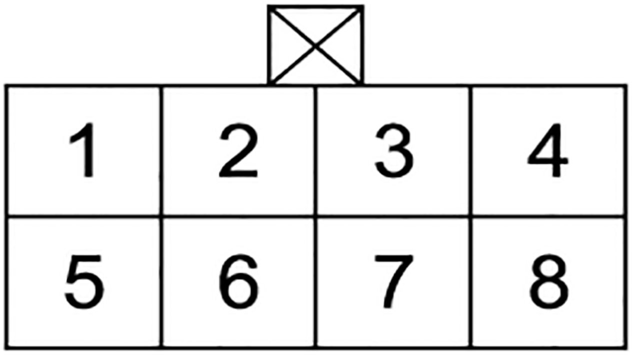
B-189 Black	 4498169 Electronic Thermostat
B-210 Black	 4498005 Intermittent Relay

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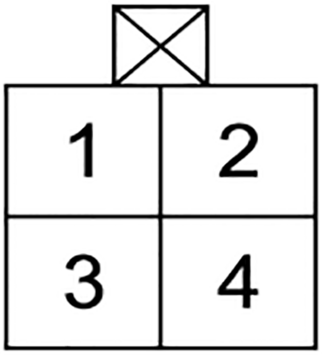
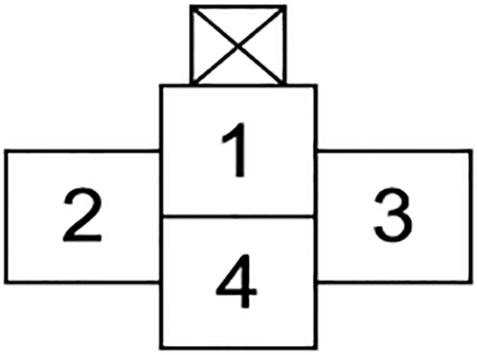
B-211 White	 4497861 Stoplight Switch
B-212 Black	 4498007 Accessory Power Relay

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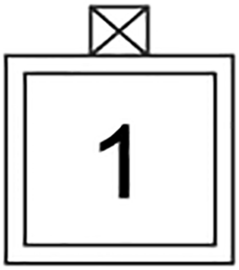
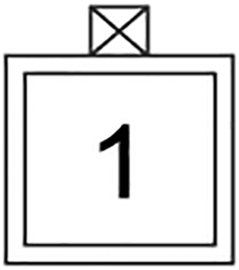
B-213 Black	 4497887 ACC Socket.A
B-214 White	 4497887 ACC Socket.B

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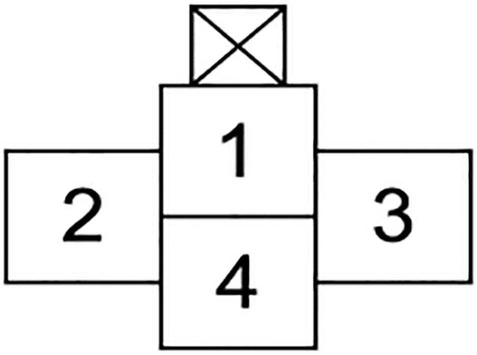
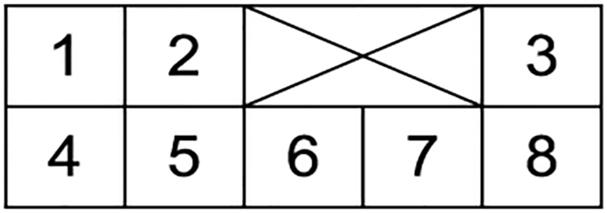
B-215 Black	 4498007 Blower Relay
B-216 Blue	 4498011 Flasher Unit

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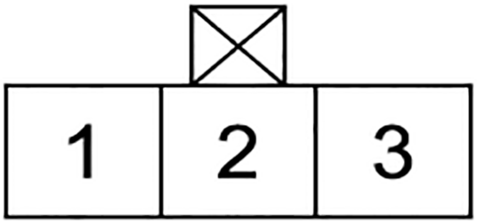
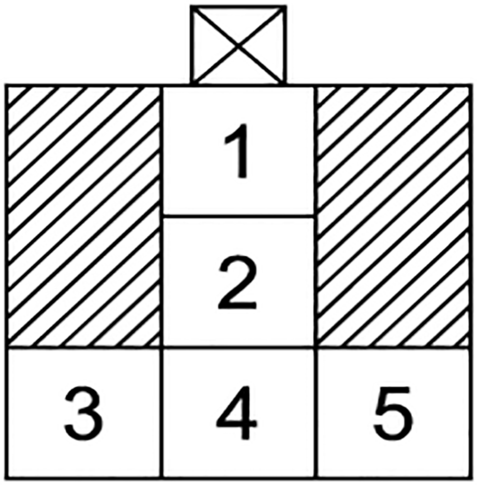
B-217 White	 4497982 Cab J/B1.M
B-218 Black	 4498012 Cigarette Lighter Relay

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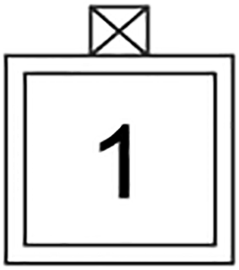
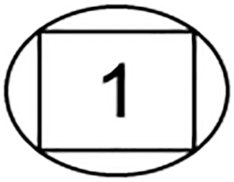
B-220 White	 4497887 Power Source
B-221	 4497888 Earth Body 21

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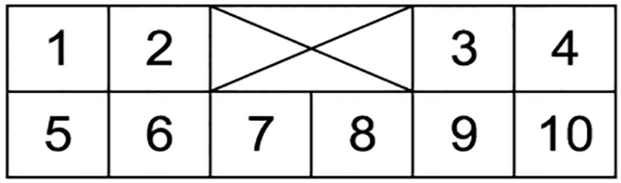
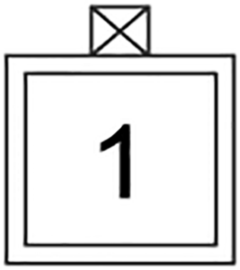
B-222 Black	 4497867 Rear Dome Light Switch
B-223 White	 4497887 Horn Switch

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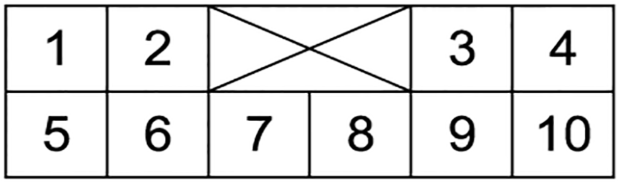
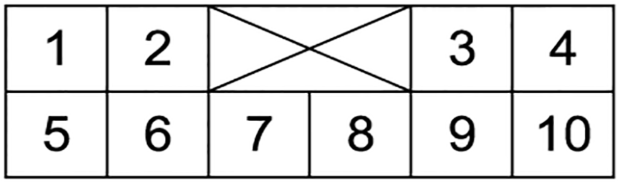
B-224 Brown	 1 2 3 4 5 6 7 8 9 10 4497867 Cruise Main Switch
B-225 Black	 1 2 3 4 5 6 7 8 9 10 4497867 DRL Control Unit. A

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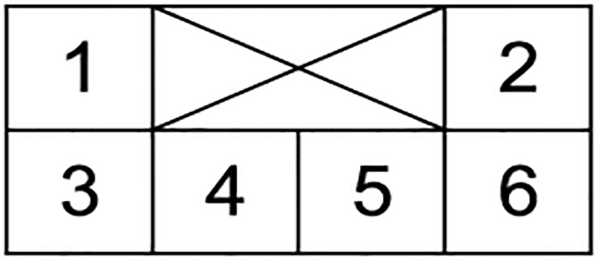
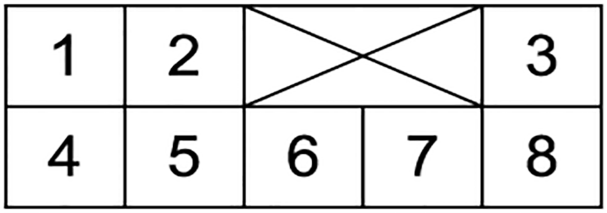
B-226 Black	 4497878 DRL Control Unit .B
B-227 Gray	 4498011 Door Lock Relay

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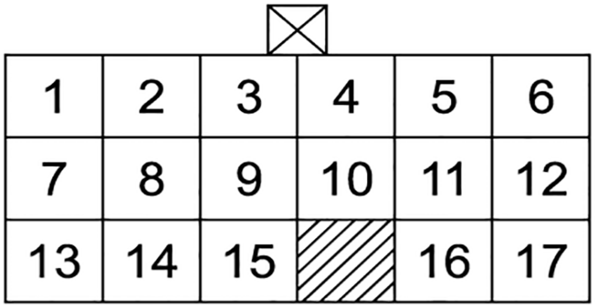
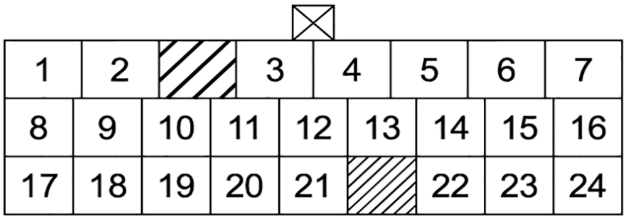
B-228 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 4498020 TCM (A)
B-229 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 4498022 TCM (B)

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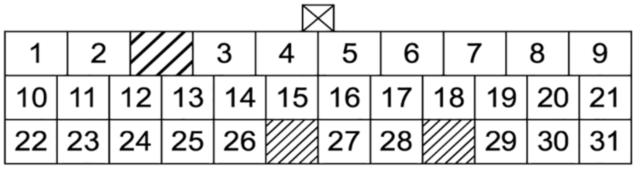
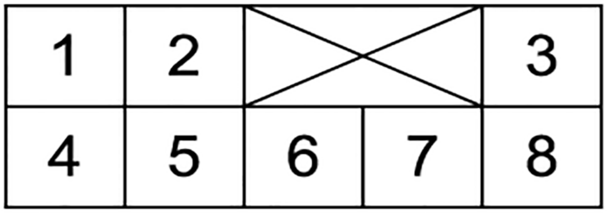
B-230 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 4498023 TCM (C)
B-232 White	 4498011 Cab J/B1.C

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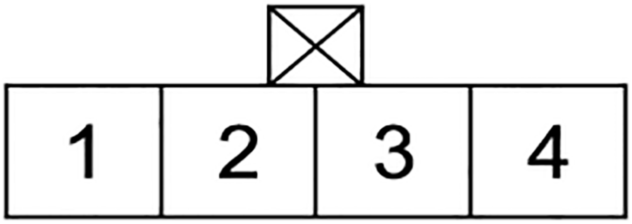
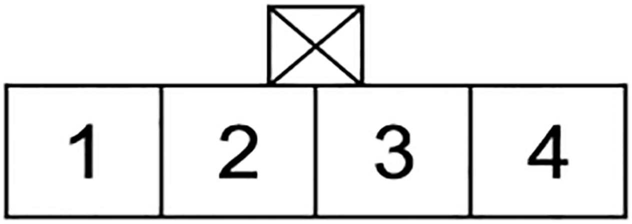
B-235 White	 4498036 CAN2 Joint check - L
B-236 White	 4498036 CAN2 Joint check - H

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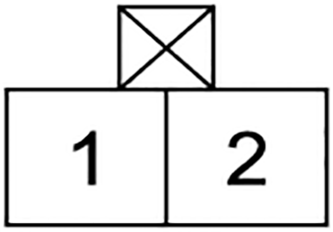
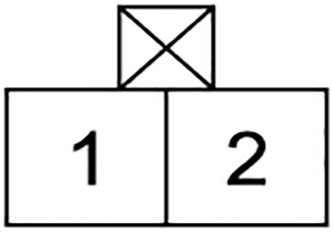
B-237 Black	 4497871 Pressure Switch
B-238 White	 4497871 Vacuum Pump

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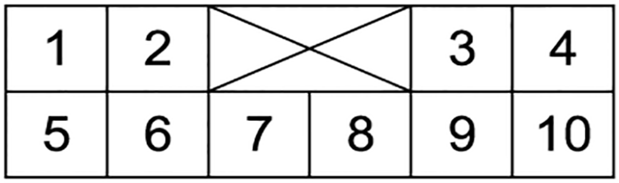
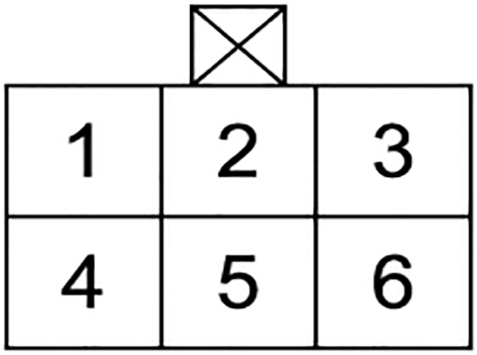
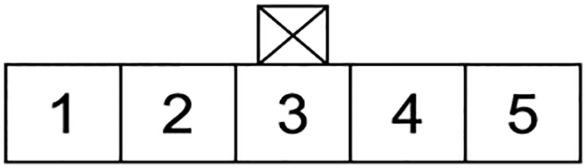
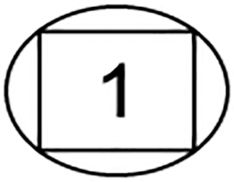
B-239 Blue	 1 2 3 4 5 6 7 8 9 10 4497867 Check Miles and Check Oil Level Switch
B-240 Blue	 1 2 3 4 5 6 4497853 Door Lock Switch

No.	Connector Face
B-241 Black	 4498169 Illumination Control Switch
B-244	 4497888 Earth Body 2

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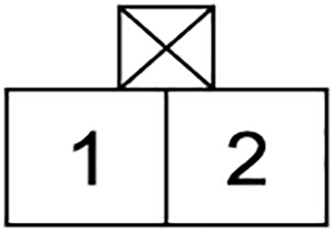
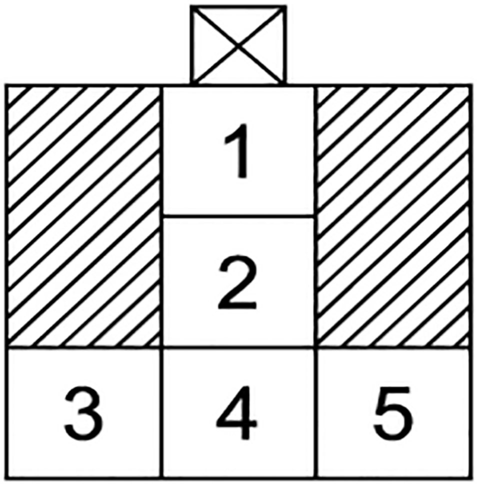
B-245 White	 4497871 Defroster Switch
B-246 Black	 4498012 Cornering Light Relay

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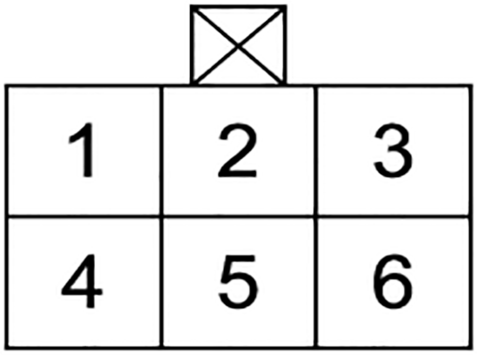
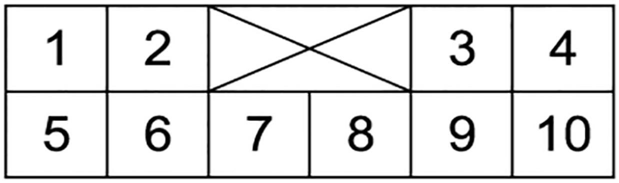
B-247 Orange	 4497853 PTO Engine Speed Control Switch
B-248 Green	 4497867 PTO Switch 2

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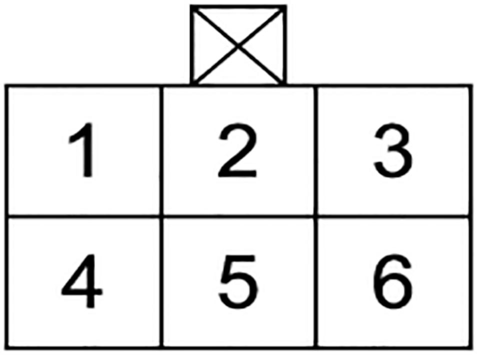
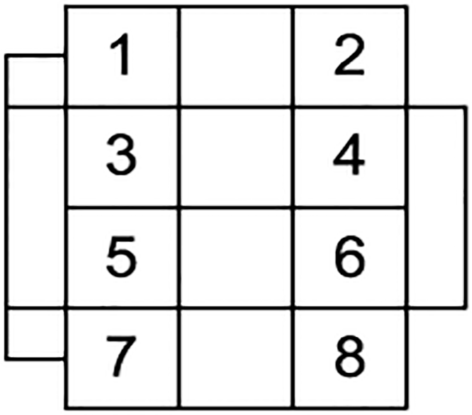
B-249 White	 1 2 3 4 5 6 4497853 Low Coolant Level Controller
B-250	 1 2 3 4 5 6 7 8 4498037 Fuse Block 1

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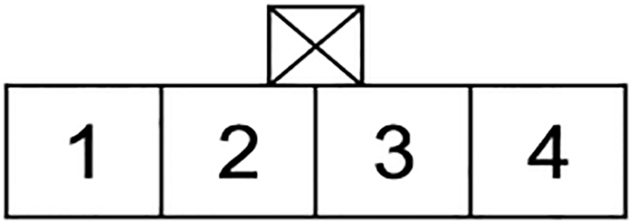
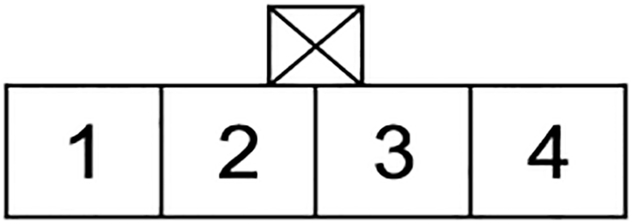
B-267 White	 4498036 J/C-100
B-268 White	 4498036 J/C-101

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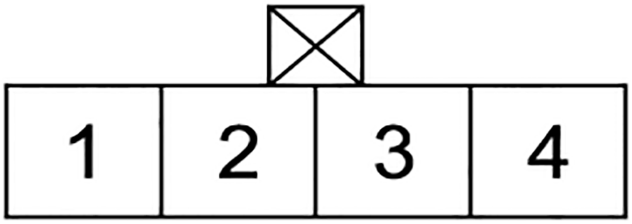
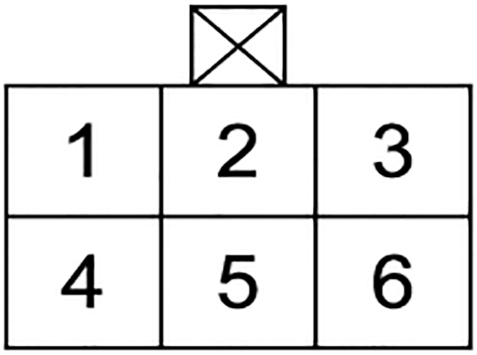
B-269 White	 4498036 J/C-50
B-282 White	 4497853 Rear Body Switch

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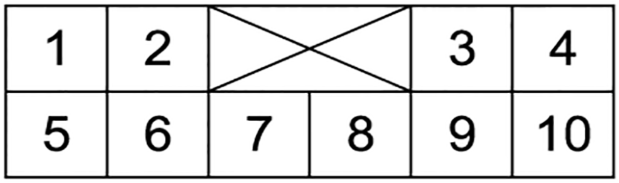
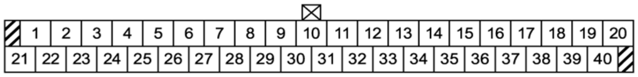
B-351 White	 1 2 3 4 5 6 7 8 9 10 4497867 Keyless Entry Control Unit
B-402 Gray	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 4498045 MIMAMORI C/U

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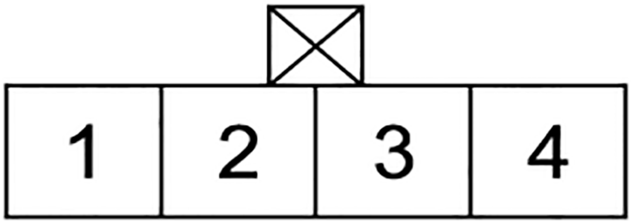
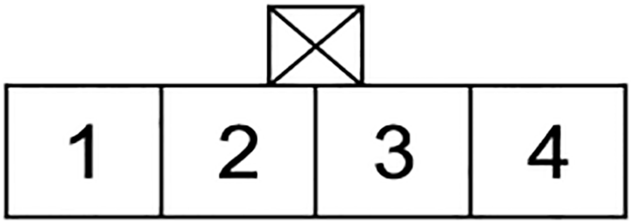
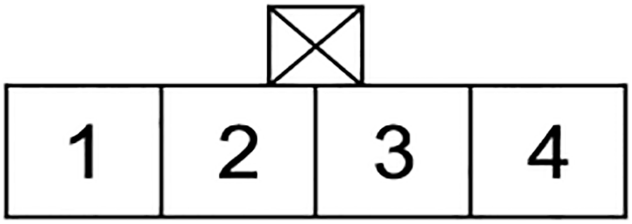
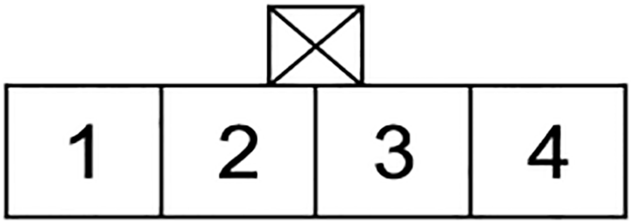
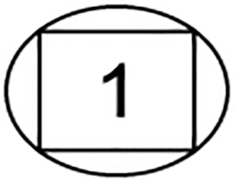
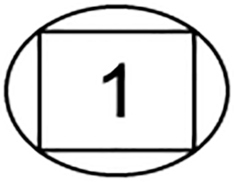
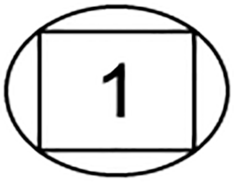
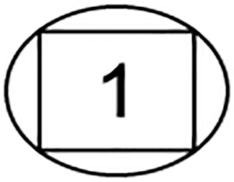
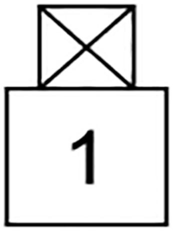
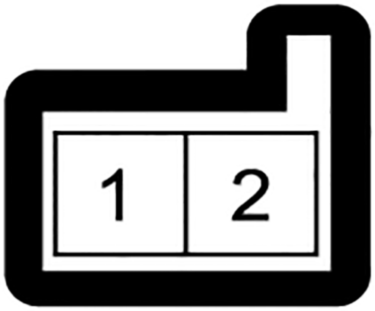
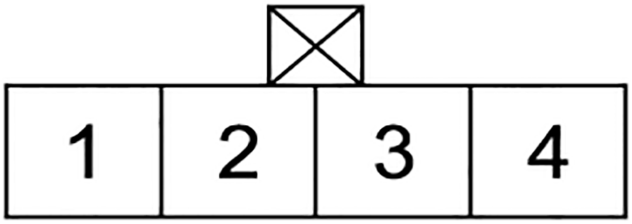
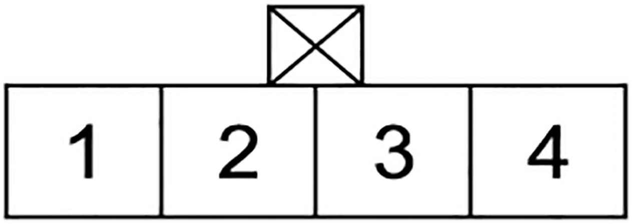
B-403 White	 4498036 J/C-CAN1 MIMAMORI - L
B-404 White	 4498036 J/C-CAN1 MIMAMORI - H

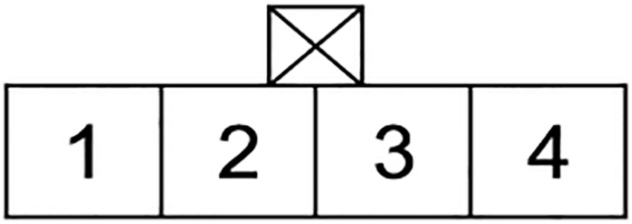
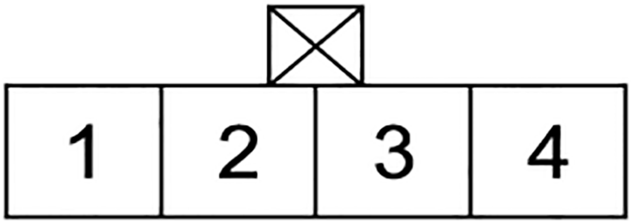
No.	Connector Face
B-405 White	 4498036 J/C-CAN2 MIMAMORI - L
B-406 White	 4498036 J/C-CAN2 MIMAMORI - H

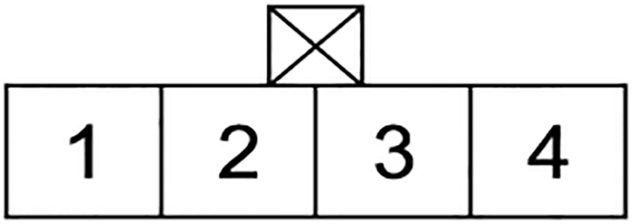
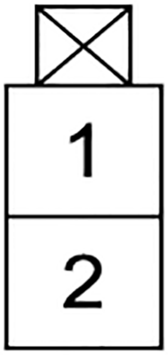
No.	Connector Face
B-409	 4497888 EXT_ETB-1
B-410	 4497888 EXT_ETB-2

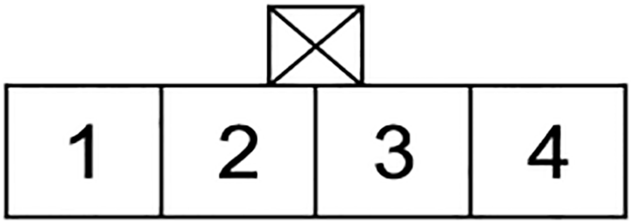
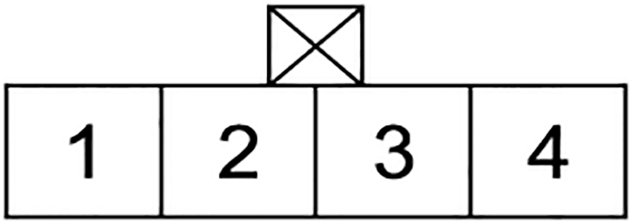
No.	Connector Face
B-411	 4497888 EXT_ETB-3
B-412	 4497888 EXT_ETB-4

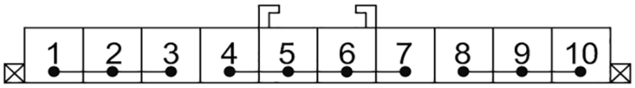
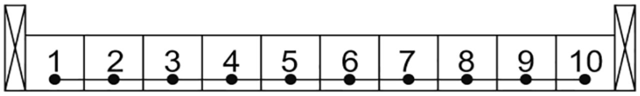
No.	Connector Face
B-414 Black	 4498047 TR Brake
B-443 Black	 4498048 Diode Door Lock
B-451	The final page of connector list

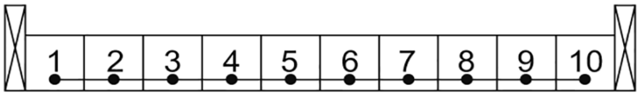
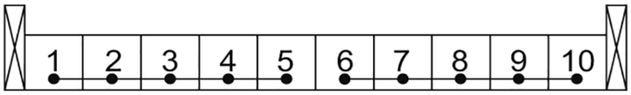
No.	Connector Face
B-452 White	 1 2 3 4 4498036 J/C FMS-B
B-453 White	 1 2 3 4 4498036 J/C FMS-E

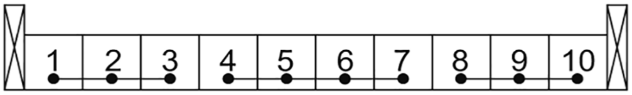
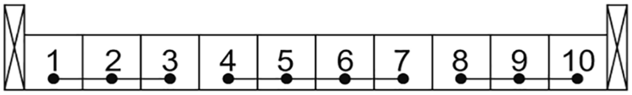
No.	Connector Face
B-454 White	 4498036 J/C FMS-IG
B-455 White	 4498036 J/C CANOUT-H

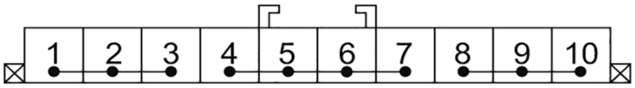
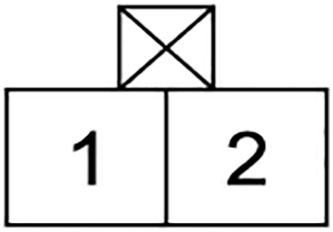
No.	Connector Face
B-456 White	 4498036 J/C CANOUT-L
B-457 Blue	 4497990 Terminal FMS

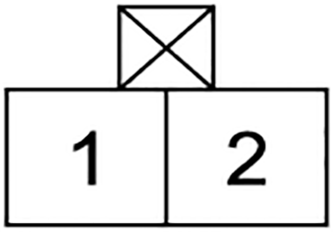
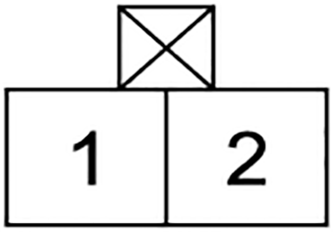
No.	Connector Face
B-458 White	 4498036 CAN Joint - FMS-L
B-459 White	 4498036 CAN Joint - FMS-H

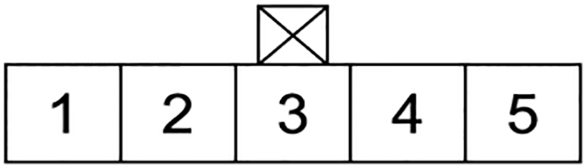
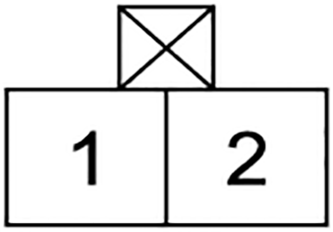
No.	Connector Face
B-505 White	 1 2 3 4 5 6 7 8 9 10 4498167 J/C 10P BASE 1
B-506 Green	 1 2 3 4 5 6 7 8 9 10 4498160 J/C 10P BASE 2

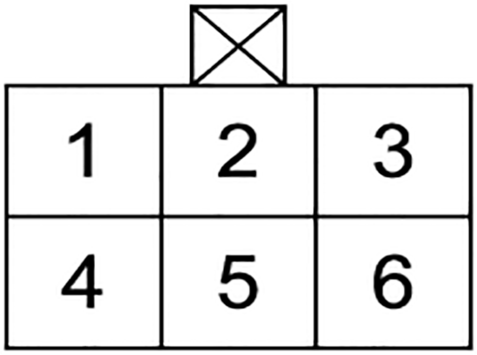
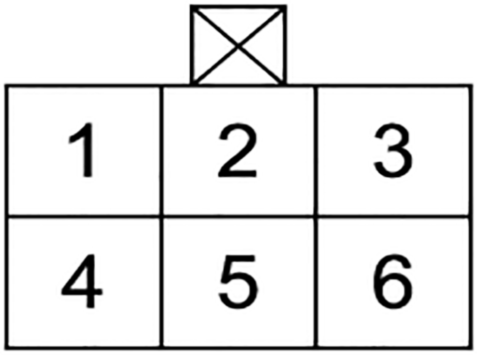
No.	Connector Face
B-507 Green	 1 2 3 4 5 6 7 8 9 10 4498160 J/C 10P BASE 3
B-508 Black	 1 2 3 4 5 6 7 8 9 10 4498162 J/C 10P ADD 1

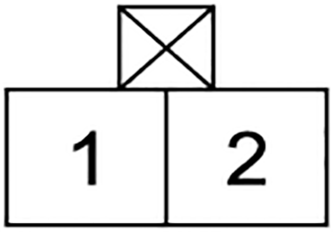
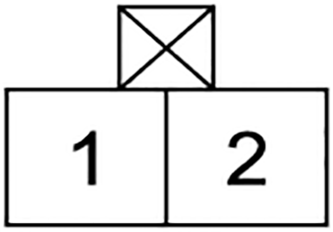
No.	Connector Face
B-518 White	 1 2 3 4 5 6 7 8 9 10 4498166 J/C 10P ADD 2
B-519 White	 1 2 3 4 5 6 7 8 9 10 4498166 J/C 10P ADD 3

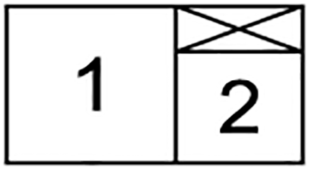
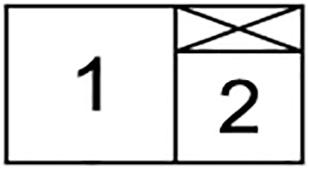
No.	Connector Face
B-520 White	 4498167 J/C 10P ADD 4
B-559 White	 4497871 Key Lock Solenoid

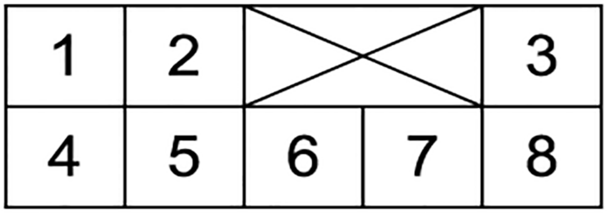
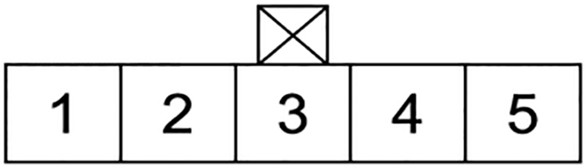
No.	Connector Face
D-2 Gray	 4497871 Front Cornering Light (LH)
D-3 Gray	 4497871 Front Cornering Light (RH)

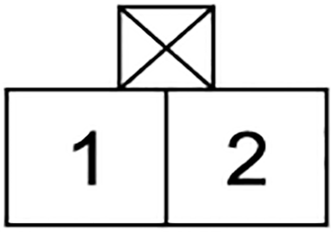
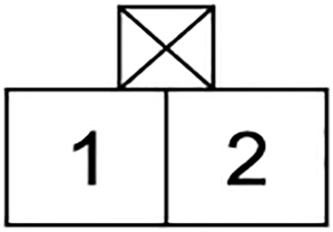
No.	Connector Face
D-5 Gray	 4498169 Front Door Lock Motor (LH)
D-7 Gray	 4497871 Front Door Lock Motor (RH)

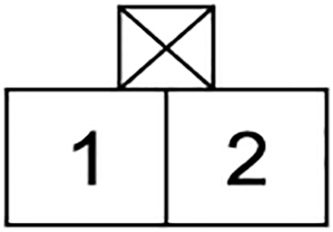
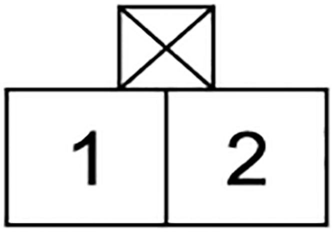
No.	Connector Face
D-9 Green	 1 2 3 4 5 6 4497853 Front Power Window Motor (LH)
D-11 Green	 1 2 3 4 5 6 4497853 Front Power Window Motor (RH)

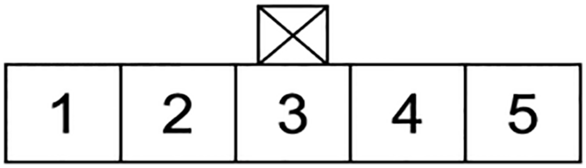
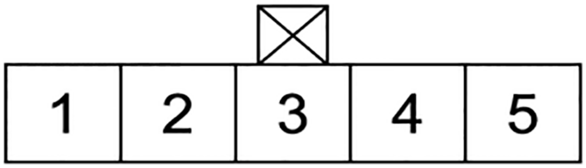
No.	Connector Face
D-12 Brown	 4497871 Side Turn Light (LH)
D-13 Brown	 4497871 Side Turn Light (RH)

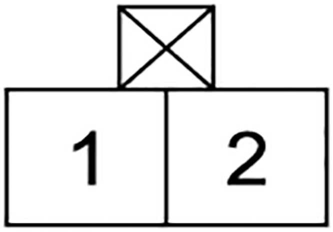
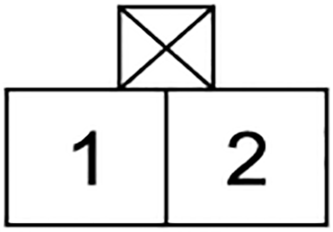
No.	Connector Face
D-17 Black	 4498174 Speaker (LH)
D-19 Black	 4498174 Speaker (RH)

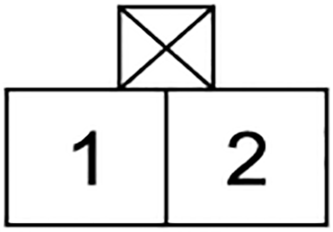
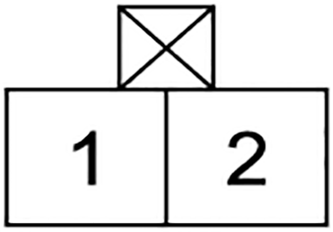
No.	Connector Face
D-21 White	 4498011 Front Power Window Switch (LH)
D-22 Gray	 4498169 Front Power Window Switch (RH)

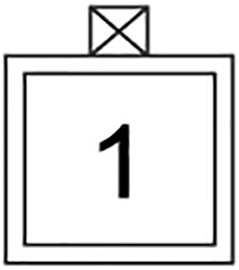
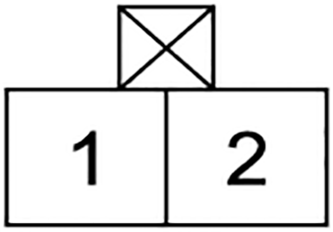
No.	Connector Face
D-23 Gray	 4497871 Rear Door Lock Motor (LH)
D-24 Gray	 4497871 Rear Door Lock Motor (RH)

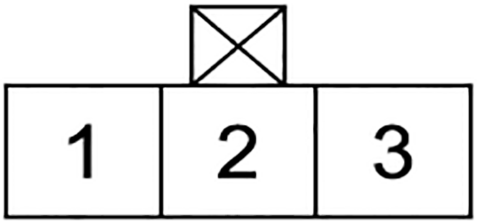
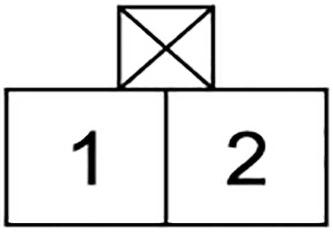
No.	Connector Face
D-25 White	 4497871 Rear Power Window Motor (LH)
D-26 White	 4497871 Rear Power Window Motor (RH)

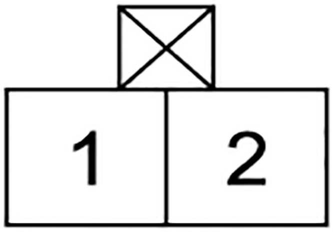
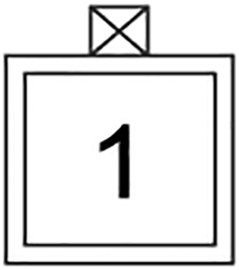
No.	Connector Face
D-27 White	 4498169 Rear Power Window Switch (LH)
D-28 White	 4498169 Rear Power Window Switch (RH)

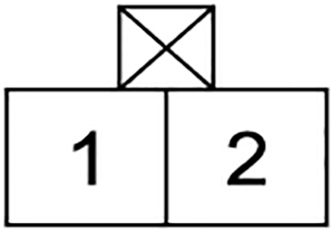
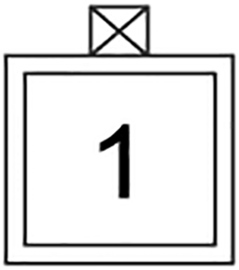
No.	Connector Face
D-40 Gray	 4497871 Heater Mirror (LH)
D-41 Gray	 4497871 Side Marker (LH)

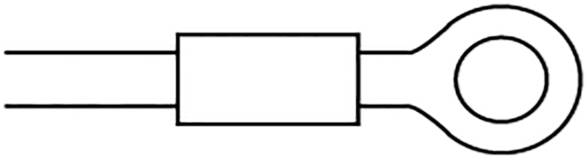
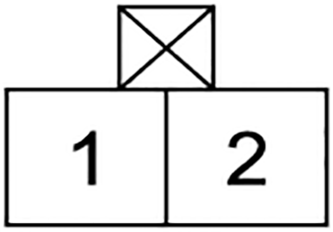
No.	Connector Face
D-42 Gray	 4497871 Heater Mirror (RH)
D-43 Gray	 4497871 Side Marker (RH)

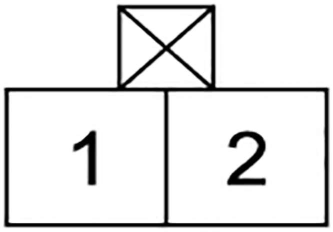
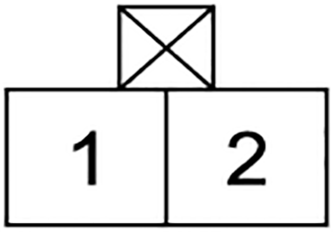
No.	Connector Face
E-3 Black	 4497887 A/C Compressor
E-17 Gray	 4497871 FRP Regulator

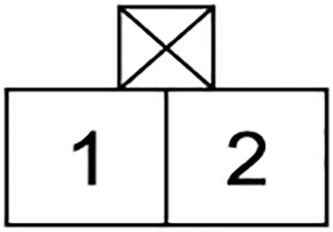
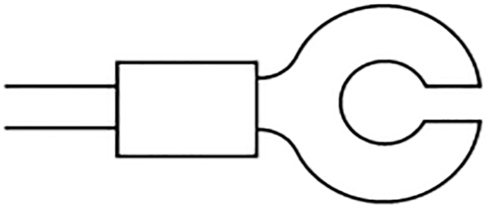
No.	Connector Face
E-18 Black	 4497982 Camshaft Position Sensor
E-22 Black	 4497871 Fuel Temp Sensor

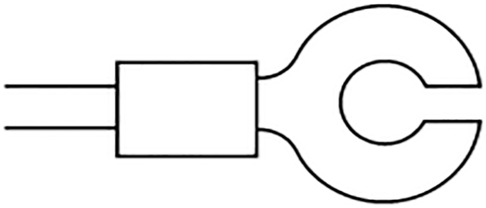
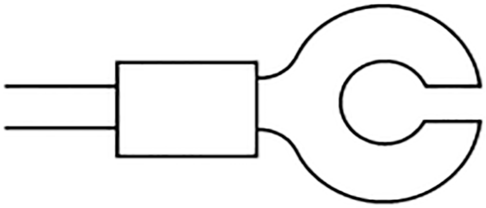
No.	Connector Face
E-25 Green	 4497871 Engine Coolant Temp Sensor
E-26 White	 4497887 Starter (C)

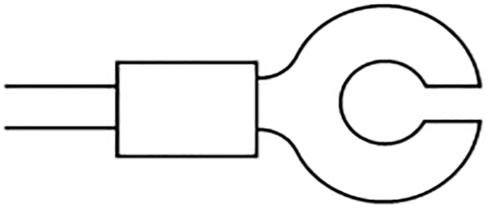
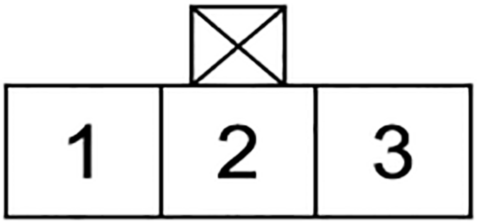
No.	Connector Face
E-29 Gray	 4497871 Oil Level Switch
E-30 Gray	 4497887 Engine Oil Pressure Switch

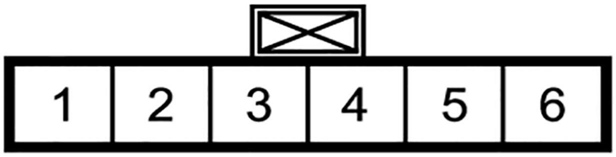
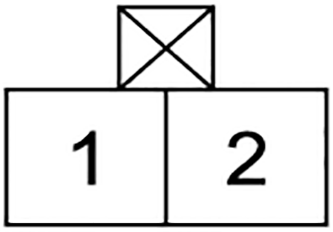
No.	Connector Face
E-50	 4498314 Generator (B)
E-51 Gray	 4497871 Generator

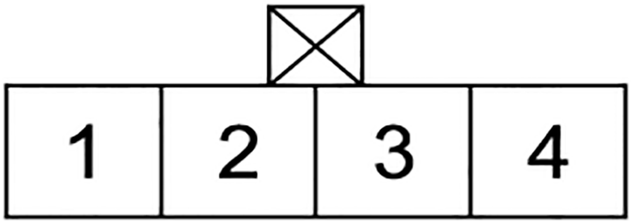
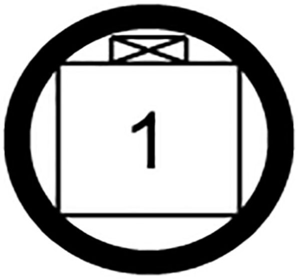
No.	Connector Face
E-52 Black	 4497871 Low Water Level Sensor
E-53 Gray	 4497871 IAT Sensor 2

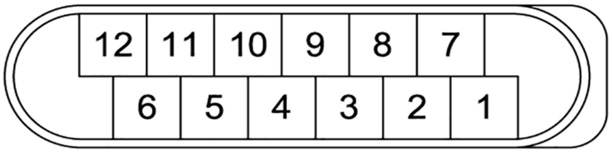
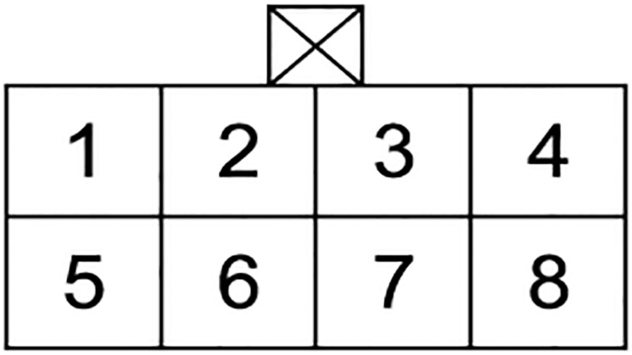
No.	Connector Face
E-54 Gray	 4497871 EGR Gas Temp (In) Sensor 1
E-56	 4498321 Glow Plug #1

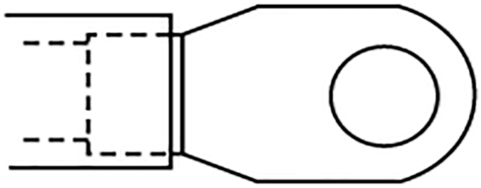
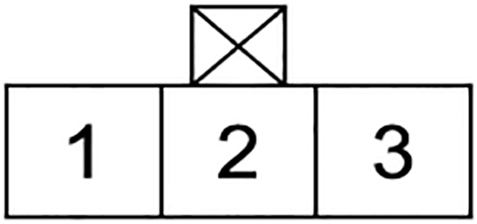
No.	Connector Face
E-57	 4498321 Glow Plug #2
E-58	 4498321 Glow Plug #3

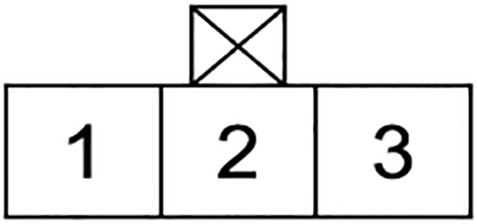
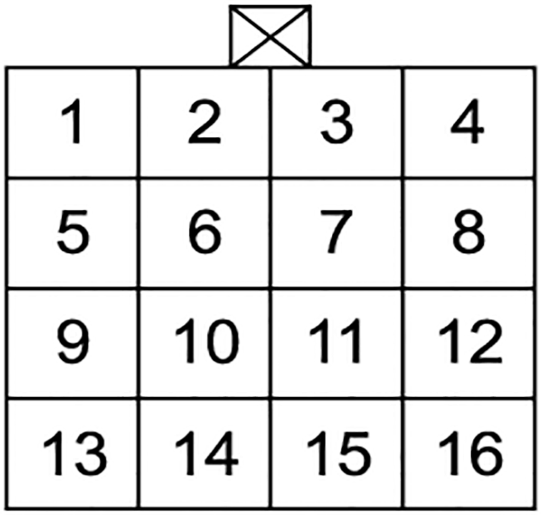
No.	Connector Face
E-59	 4498321 Glow Plug #4
E-60 White	 4497982 Diesel Particulate Filter (DPF) Fuel Pressure Sensor

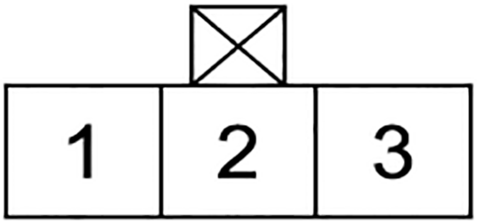
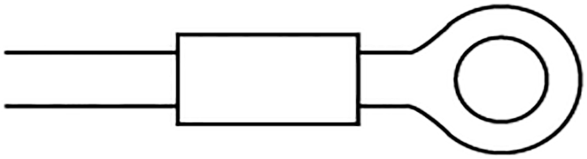
No.	Connector Face
E-61 White	 4498304 Intake Airflow Throttle
E-62 Black	 4497871 EGR Gas Temp (Out) Sensor 1

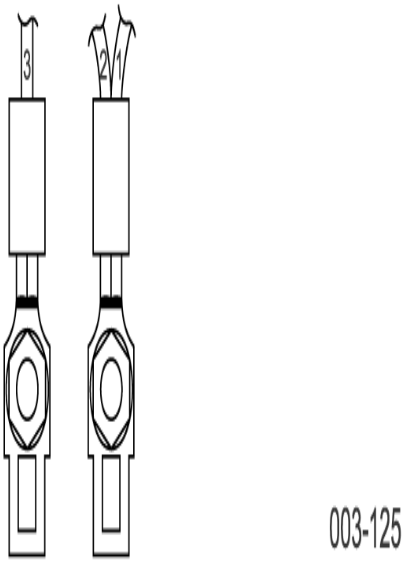
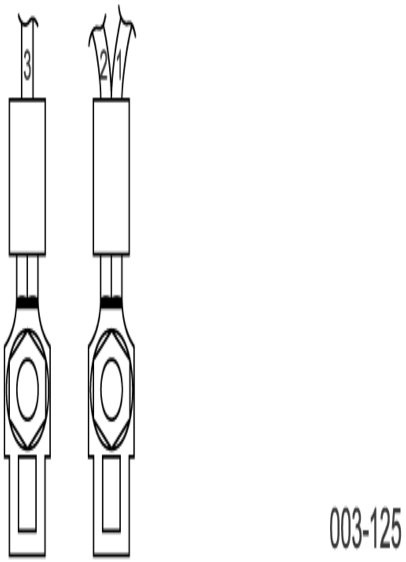
No.	Connector Face
E-63 Brown	 4498036 EGR Valve
E-64 Black	 4498312 Glow Plug Control Module 1

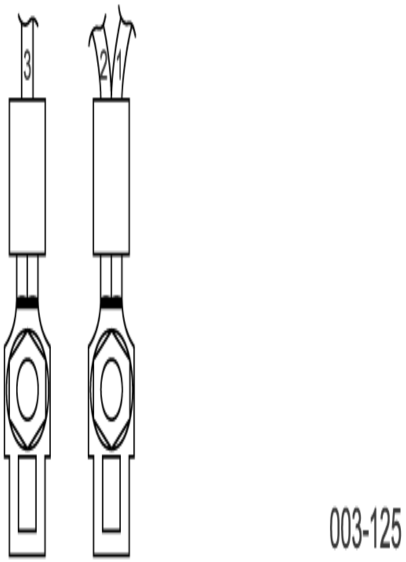
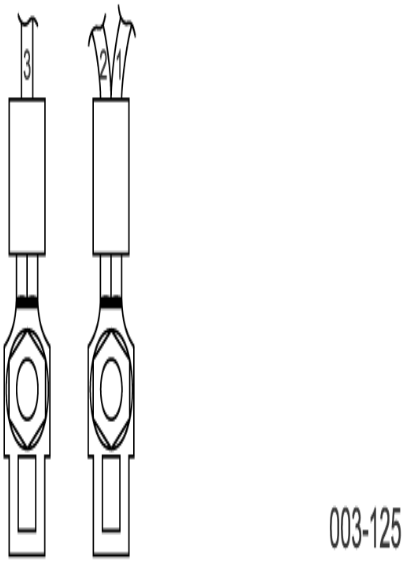
No.	Connector Face
E-65 Black	 12 11 10 9 8 7 6 5 4 3 2 1 4498316 Glow Plug Control Module 2
E-66 Black	 1 2 3 4 5 6 7 8 4498005 VNT Actuator and Sensor

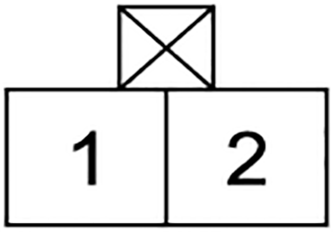
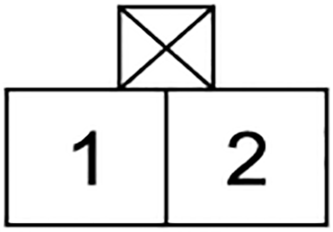
No.	Connector Face
E-67	 Starter (B)
E-68 Black	 1 2 3 4497982 Engine Oil Pressure Sensor

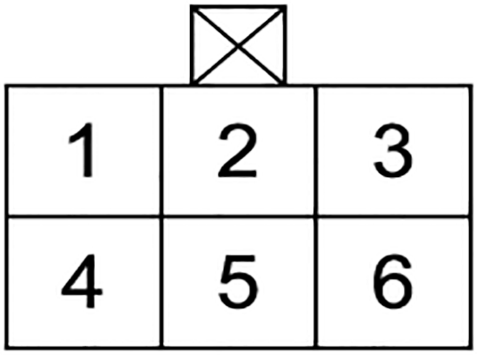
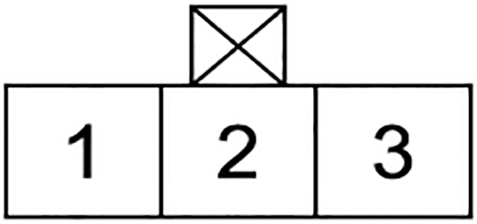
No.	Connector Face
E-69 Black	 4497982 Crankshaft Position Sensor
E-71 Gray	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4498351 VNT Control Module

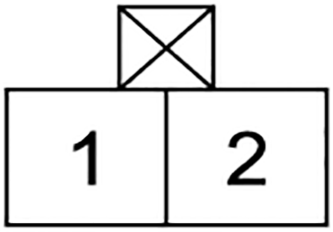
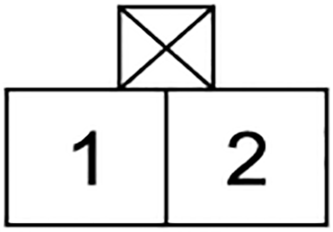
No.	Connector Face
E-72 Black	 Boost Pressure Sensor
E-73 Black	The final page of connector list
E-74	 Engine Earth

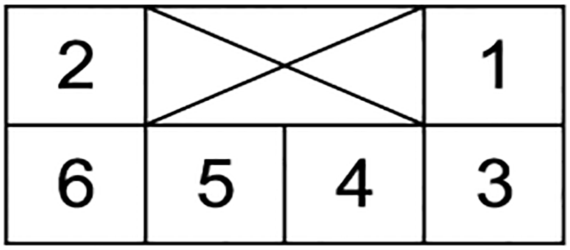
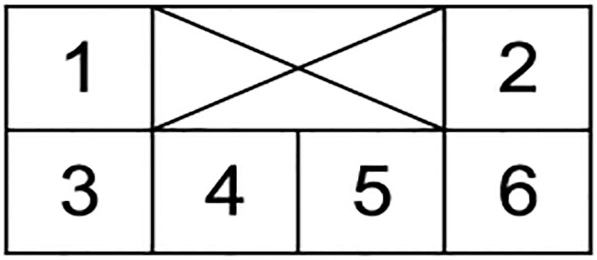
No.	Connector Face
E-75	 4507142 Cylinder No.1 (Injector No.1)
E-76	 4507142 Cylinder No.2 (Injector No.4)

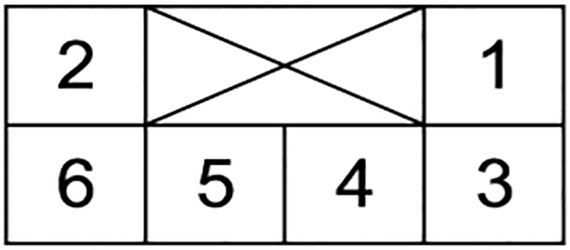
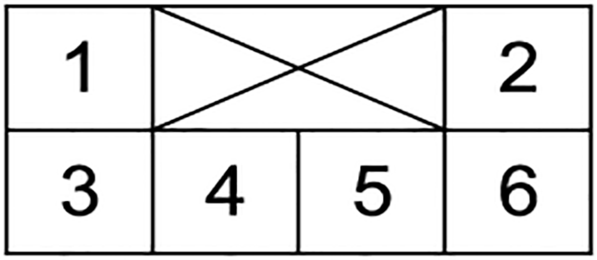
No.	Connector Face
E-77	 4507142 Cylinder No.3 (Injector No.2)
E-78	 4507142 Cylinder No.4 (Injector No.3)

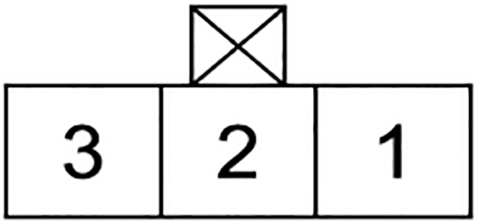
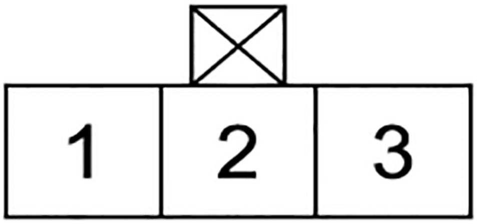
No.	Connector Face
E-146 Light Gray	 4497871 Turbocharger Outlet Air Temperature Sensor
E-147 Gray	 4497871 DPF Fuel Injector

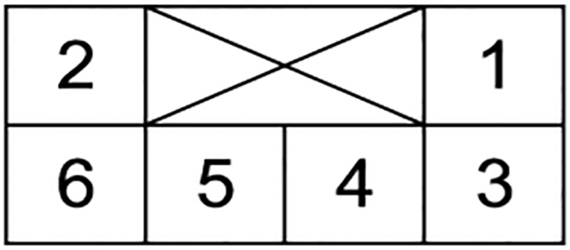
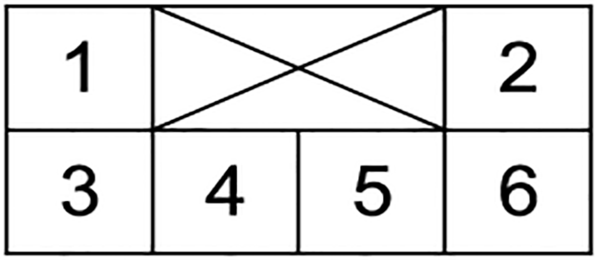
No.	Connector Face
E-165 Black	 4497853 Fuel Rail Pressure (FRP) Sensor
E-191 Black	 4497982 Crankcase Pressure Sensor

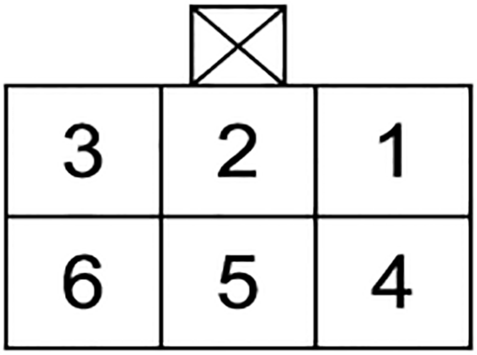
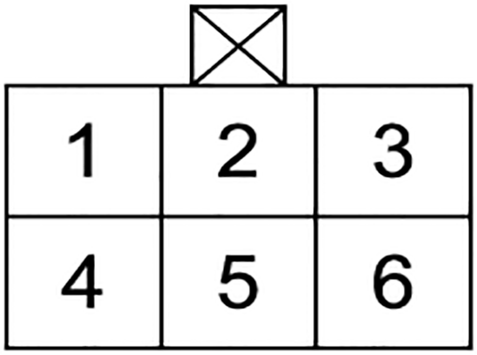
No.	Connector Face
E-192 (Gray)	 4497871 DPF Fuel Cut Solenoid Valve
E-193 (Black)	 4497871 Terminator

No.	Connector Face
H-31 White	 4498340 Inst H.□Door (LH) H.
H-31 White	 4497878 Inst H.□Door (LH) H.

No.	Connector Face
H-32 Black	 4498340 Inst H.□Door (RH) H.
H-32 Black	 4497878 Inst H.□Door (RH) H.

No.	Connector Face
H-33 Black	 4498355 Inst H.□ Floor (RH) H.
H-33 Black	 4497982 Inst H.□ Floor (RH) H.

No.	Connector Face
H-45 White	 4498340 Inst H.□ Roof H.
H-45 White	 4497878 Inst H.□ Roof H.

No.	Connector Face
H-49 Gray	 4498462 Floor (LH) H.□ Rear Door (LH) H.
H-49 Gray	 4497853 Floor (LH) H.□ Rear Door (LH) H.

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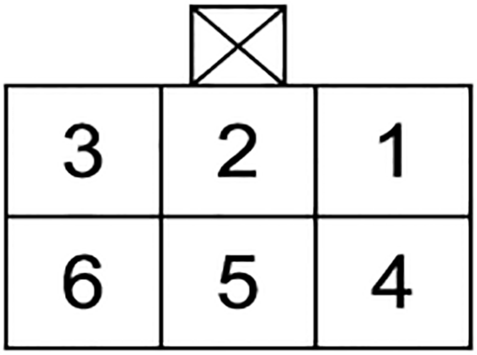

4498462

Floor (RH) H. Rear Door (RH) H.
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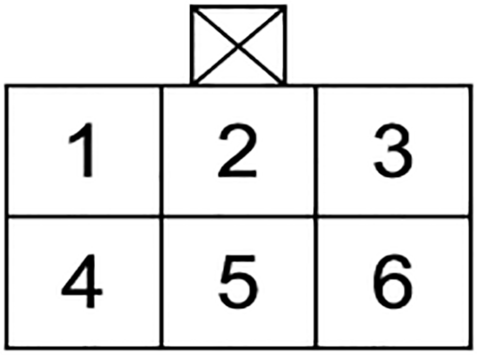
<tr><td>H-51
Gray</td><td>


4497853

Floor (RH) H. Rear Door (RH) H.
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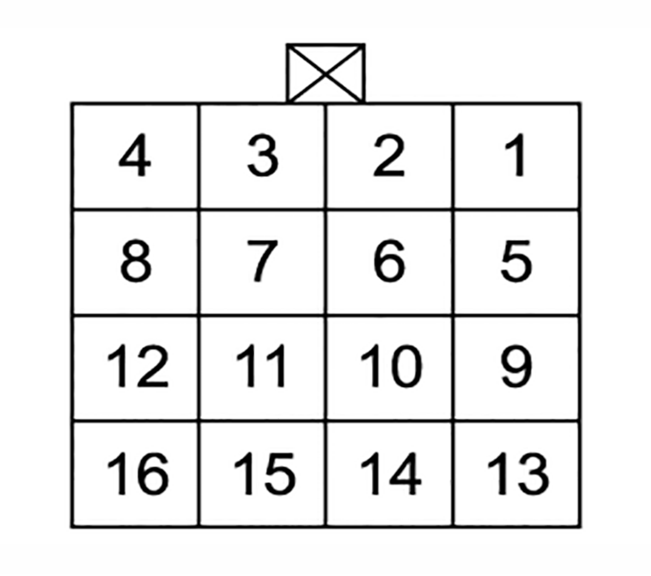
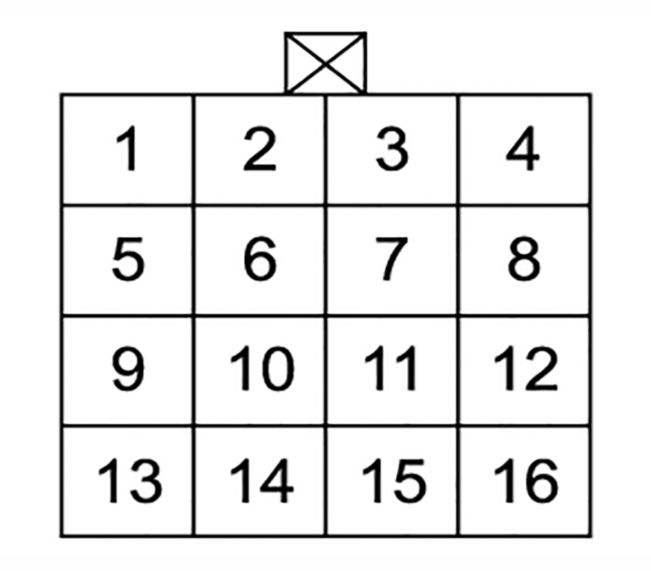
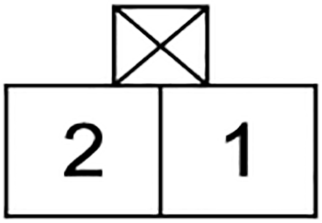
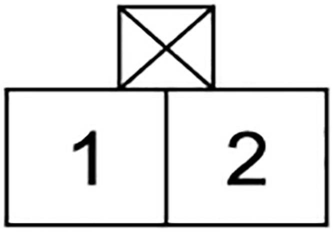
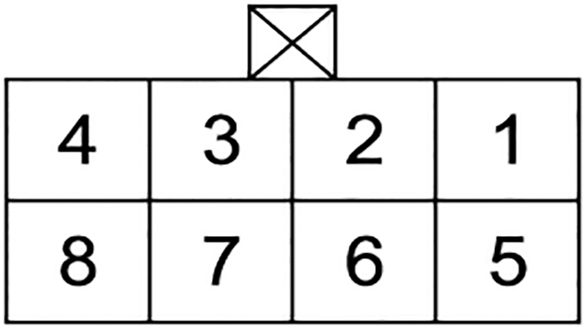
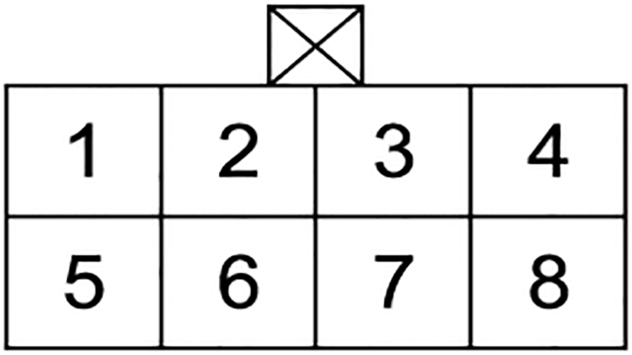
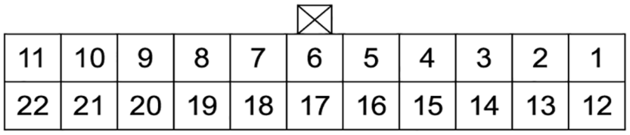
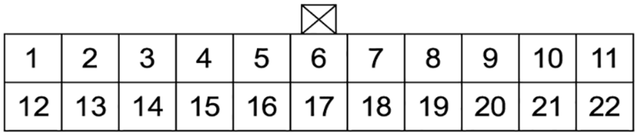
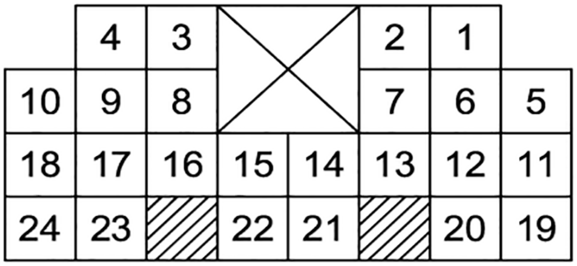
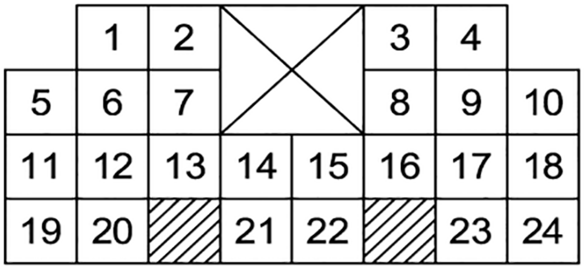
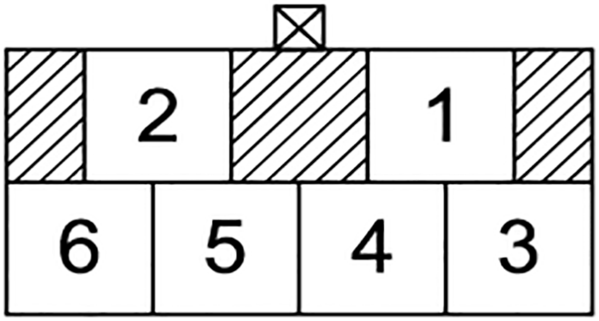
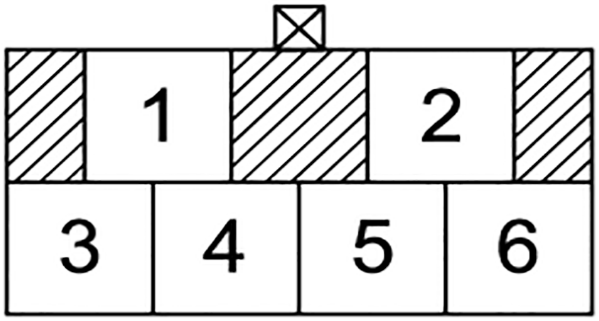
No.	Connector Face
H-52 Black	 4 3 2 1 8 7 6 5 12 11 10 9 16 15 14 13 4498347 Frame Front H.□ Engine1 H.
H-52 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4498351 Frame Front H.□ Engine1 H.

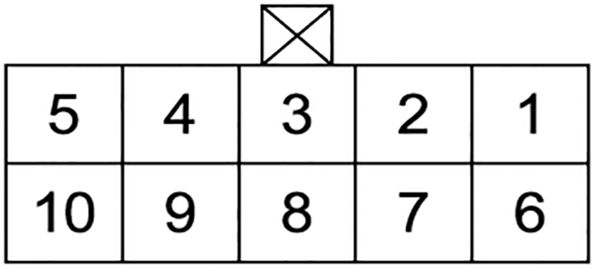
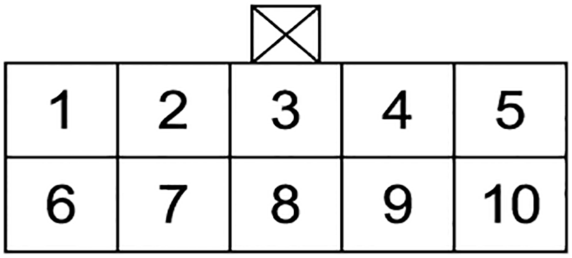
No.	Connector Face
H-53 Gray	 4498353 Frame Front H.□ Engine 2 H.
H-53 Gray	 4497871 Frame Front H.□ Engine 2 H.

No.	Connector Face
H-66 Black	 4498424 Frame Rear H.□ Rear Combi H.
H-66 Black	 4498005 Frame Rear H.□ Rear Combi H.

No.	Connector Face
H-80 Black	 11 10 9 8 7 6 5 4 3 2 1 22 21 20 19 18 17 16 15 14 13 12 4498385 Inst H.□ Frame Front H.
H-80 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 4498387 Inst H.□ Frame Front H.

No.	Connector Face
H-81 Green	 4 3 2 1 10 9 8 7 6 5 18 17 16 15 14 13 12 11 24 23 22 21 20 19 4498374 Inst H.□ Frame Front H.
H-81 Green	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 4498376 Inst H.□ Frame Front H.

No.	Connector Face
H-82 Gray	 4498378 Inst H.□ Frame Front H.
H-82 Gray	 4498382 Inst H.□ Frame Front H.

No.	Connector Face
H-83 White	 5 4 3 2 1 10 9 8 7 6 4498383 Inst H. Frame Front H.
H-83 White	 1 2 3 4 5 6 7 8 9 10 4497881 Inst H. Frame Front H.

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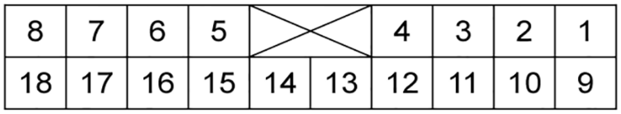
8
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18
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16
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10
9
4498369

Inst H.□ Inst H.
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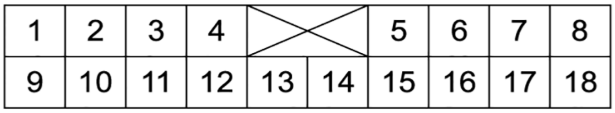
White</td><td>

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4498371

Inst H.□ Inst H.
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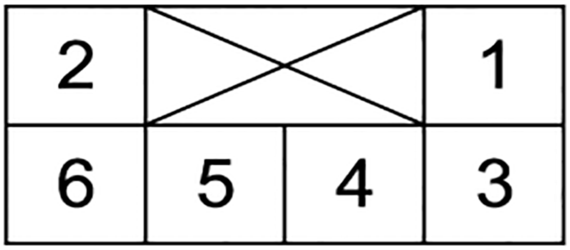
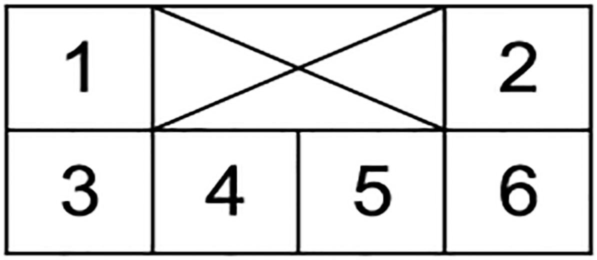
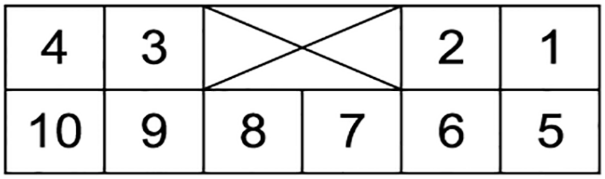
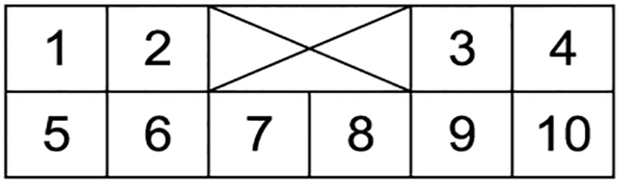
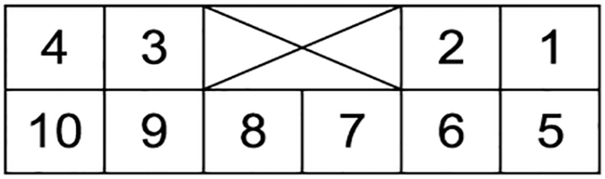
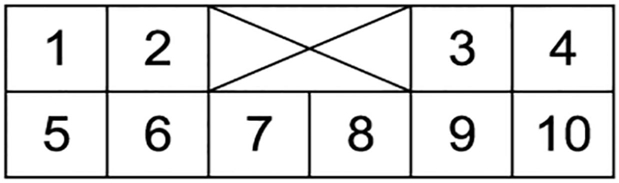
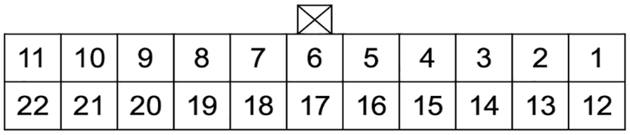
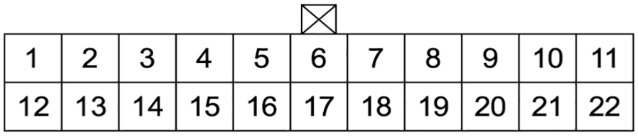
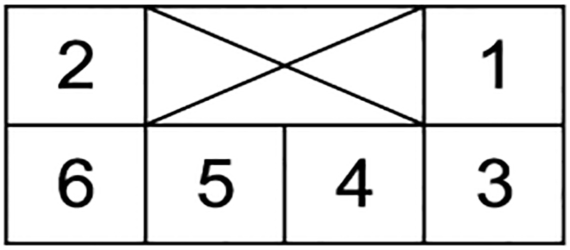
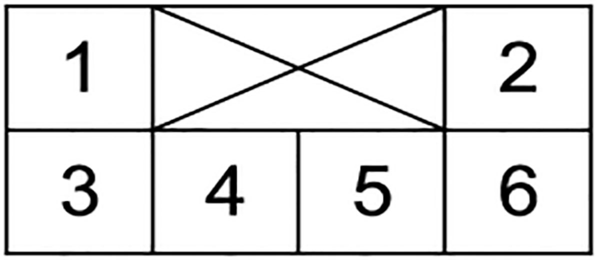
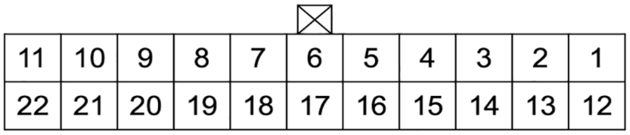
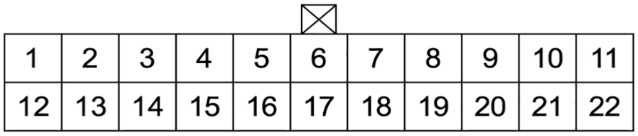
No.	Connector Face
H-85 Black	 4498340 Inst H.□ Floor (LH) H.
H-85 Black	 4497878 Inst H.□ Floor (LH) H.

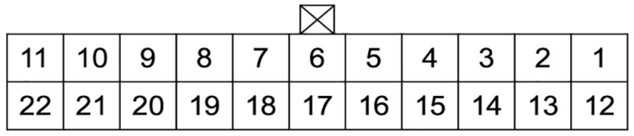
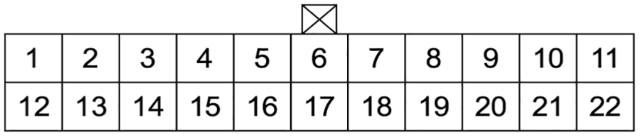
No.	Connector Face
H-86 White	 4 3 2 1 10 9 8 7 6 5 4498380 Inst H.□ Floor (RH) H.
H-86 White	 1 2 3 4 5 6 7 8 9 10 4497867 Inst H.□ Floor (RH) H.

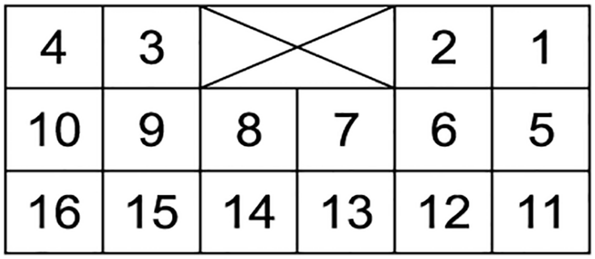
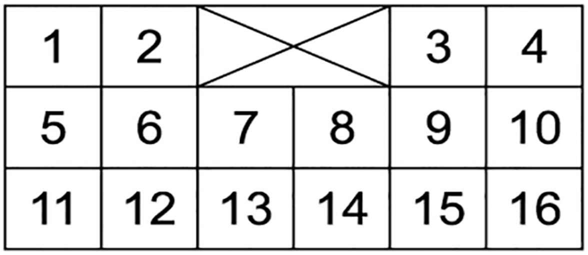
No.	Connector Face
H-87 Green	 4 3 2 1 10 9 8 7 6 5 4498380 Inst H.□ Door(RH) H.
H-87 Green	 1 2 3 4 5 6 7 8 9 10 4497867 Inst H.□ Door(RH) H.

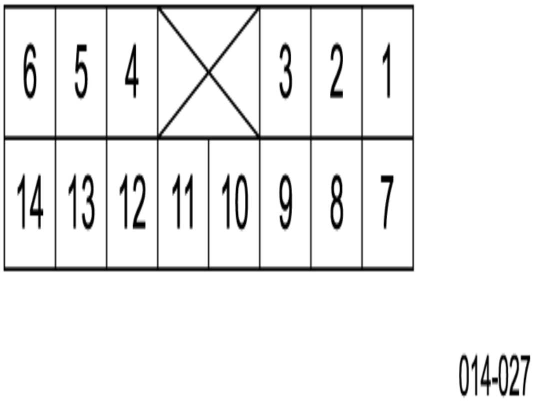
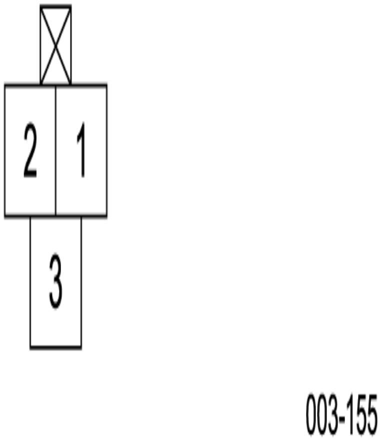
No.	Connector Face
H-88 Blue	 11 10 9 8 7 6 5 4 3 2 1 22 21 20 19 18 17 16 15 14 13 12 4498385 Inst H.□ Frame Frt H.
H-88 Blue	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 4498387 Inst H.□ Frame Frt H.

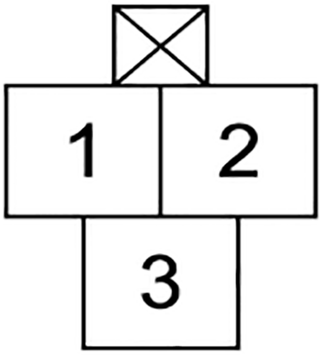
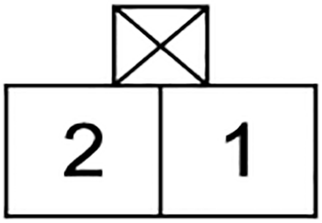
No.	Connector Face
H-89 Orange	 4498340 Inst H.□ Frame Frt H.
H-89 Orange	 4497878 Inst H.□ Frame Frt H.

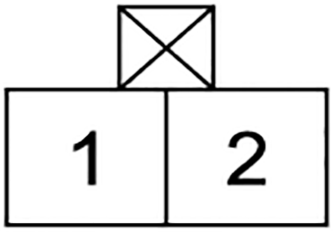
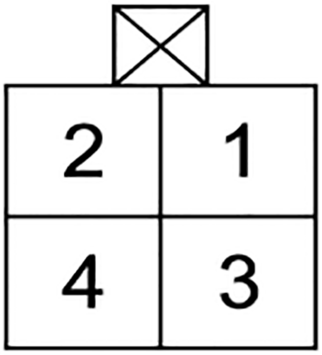
No.	Connector Face
H-90 White	 11 10 9 8 7 6 5 4 3 2 1 22 21 20 19 18 17 16 15 14 13 12 4498385 Inst H.□ Frame Frt H.
H-90 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 4498387 Inst H.□ Frame Frt H.

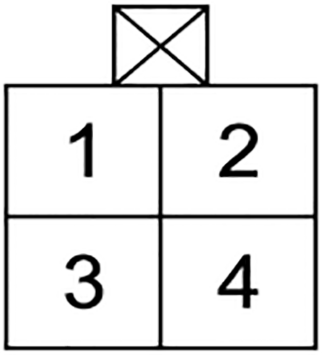
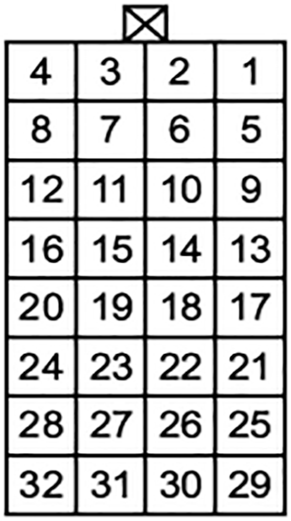
No.	Connector Face
H-91 Gray	 11 10 9 8 7 6 5 4 3 2 1 22 21 20 19 18 17 16 15 14 13 12 4498385 Inst H.□ Frame Frt H.
H-91 Gray	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 4498387 Inst H.□ Frame Frt H.

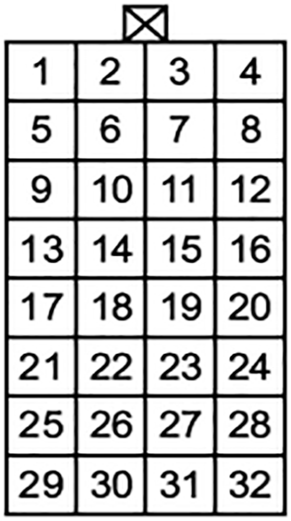
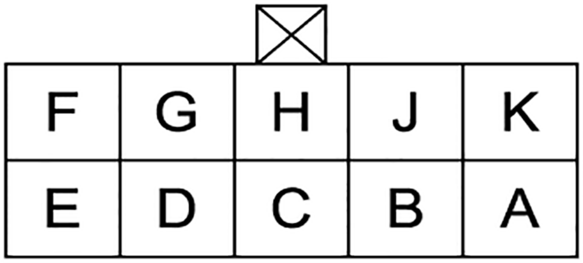
No.	Connector Face
H-92 Black	 4 3 2 1 10 9 8 7 6 5 16 15 14 13 12 11 4498399 Inst H.□ Door (LH) H.
H-92 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4498404 Inst H.□ Door (LH) H.

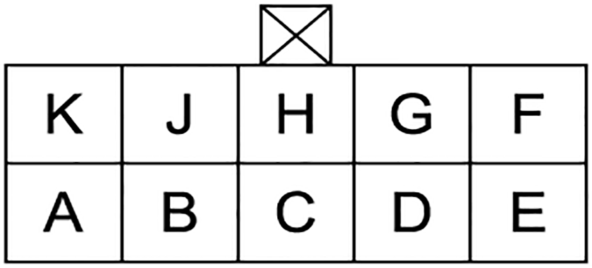
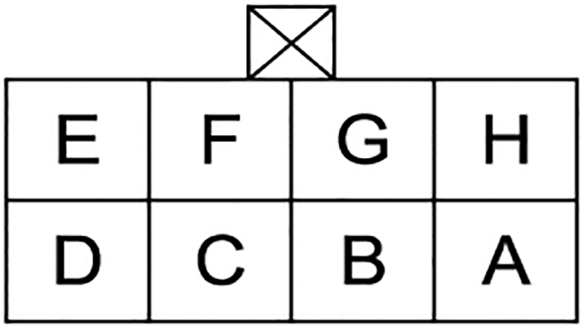
No.	Connector Face
H-93 White	 6 5 4 3 2 1 14 13 12 11 10 9 8 7 014-027 4712312 Inst H.□ Floor (LH) H. MT AT
H-93 White	Inst H.□Floor (LH) H. MT AT
H-94 Black	 4507143 Frame Front H.□ Fuel Tank

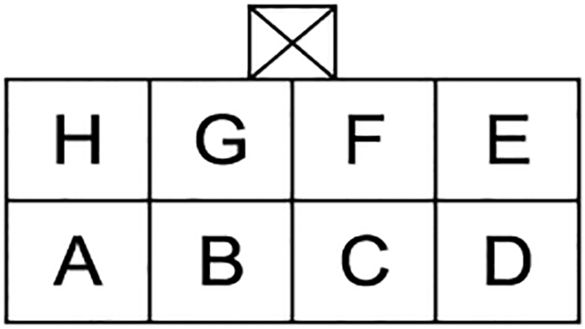
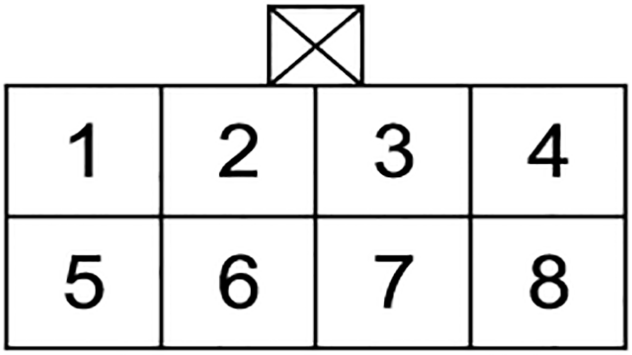
No.	Connector Face
H-94 Black	 4498299 Frame Front H. Fuel Tank
H-95 Black	 4498353 Frame Front H. AFT Temp

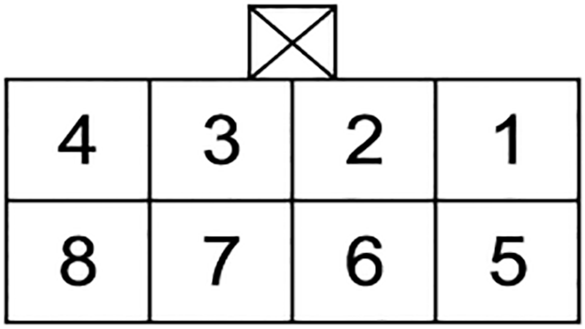
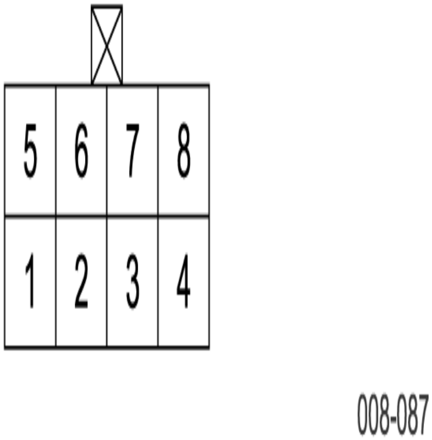
No.	Connector Face
H-95 Black	 4497871 Frame Front H.□ AFT Temp
H-96 Black	 4498425 Brake Fluid Level Switch (HBB) (C-Cab)

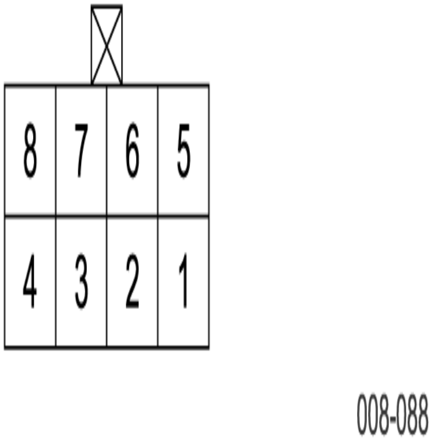
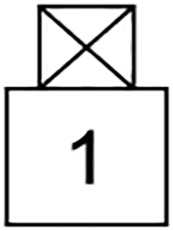
No.	Connector Face
H-96 Black	 1 2 3 4 4497861 Brake Fluid Level Switch (HBB) (C-Cab)
H-101 Black	 4 3 2 1 8 7 6 5 12 11 10 9 16 15 14 13 20 19 18 17 24 23 22 21 28 27 26 25 32 31 30 29 4498392 Frame Front H.□ Frame Rear H.

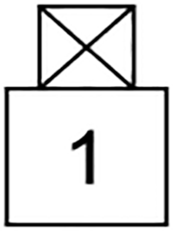
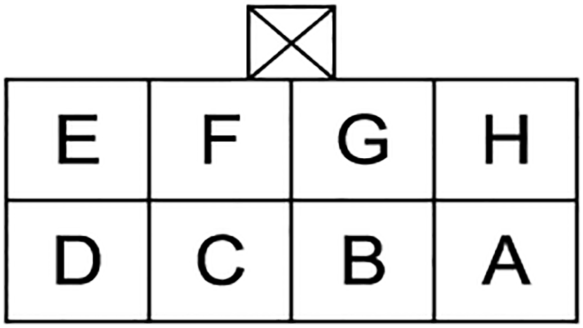
No.	Connector Face
H-101 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 4498395 Frame Front H.□ Frame Rear H.
H-104 Black	 F G H J K E D C B A 4498396 Frame Rear H.□ PTO2 H.

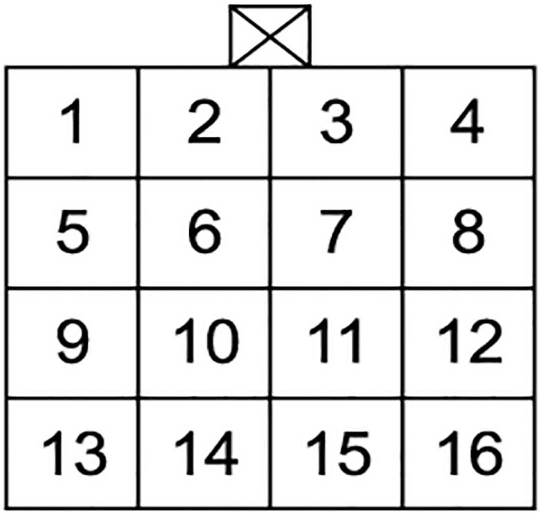
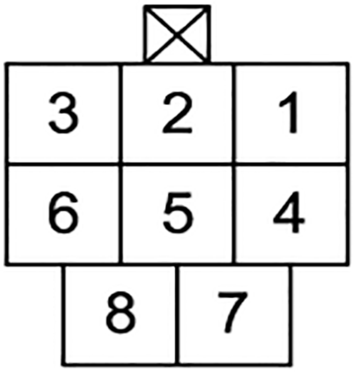
No.	Connector Face
H-104 Black	 4498397 Frame Rear H.□ PTO2 H.
H-105 Black	 4498401 Frame Rear H.□ PTO1 H.

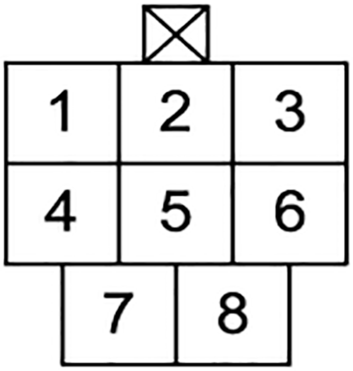
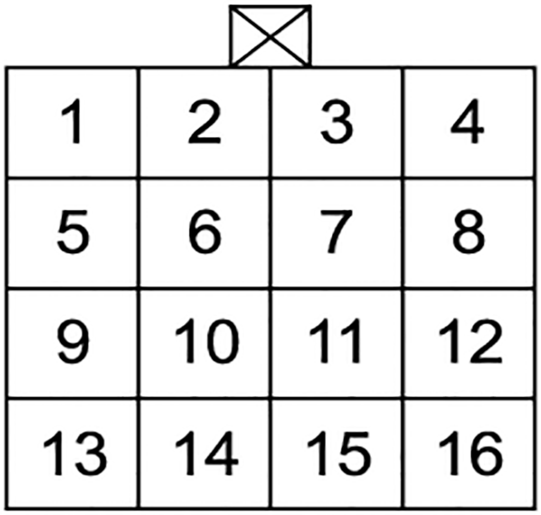
No.	Connector Face
H-105 Black	 4498405 Frame Rear H. PTO1 H.
H-107 Gray	 4498005 Engine Injector

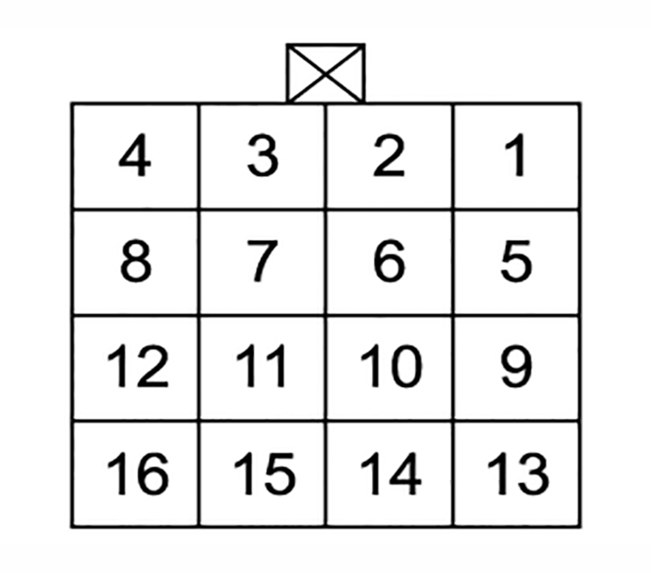
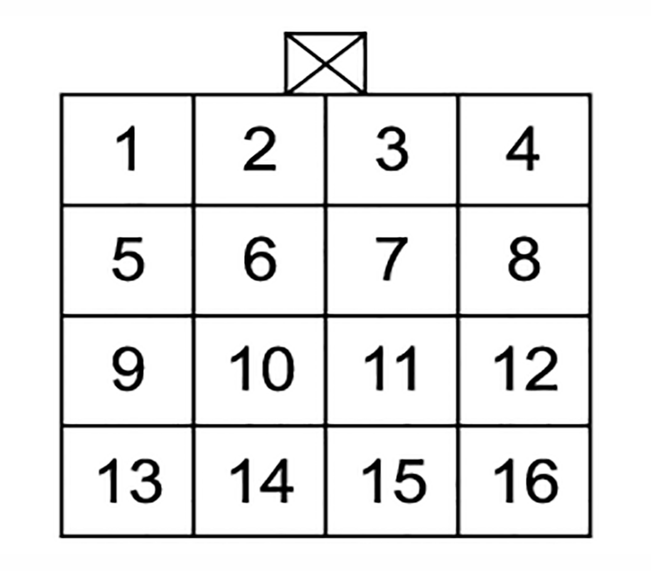
No.	Connector Face
H-107 Gray	 4498424 Engine □ Injector
H-108 Gray	 5 6 7 8 1 2 3 4 008-087 4507144 Engine □ Injector

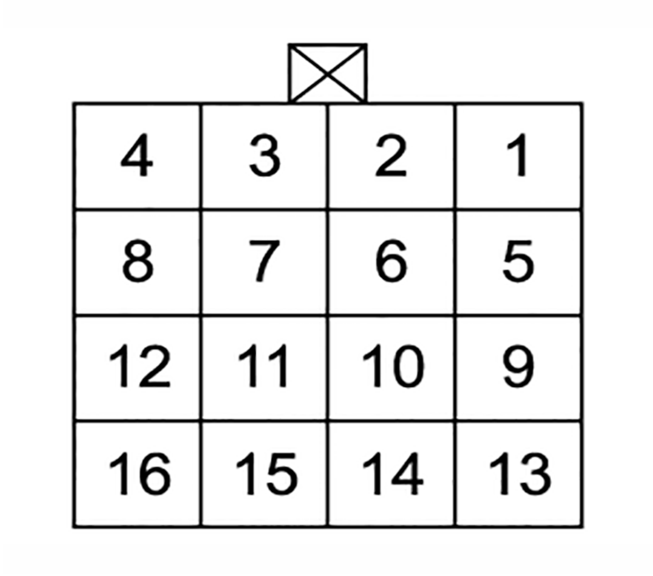
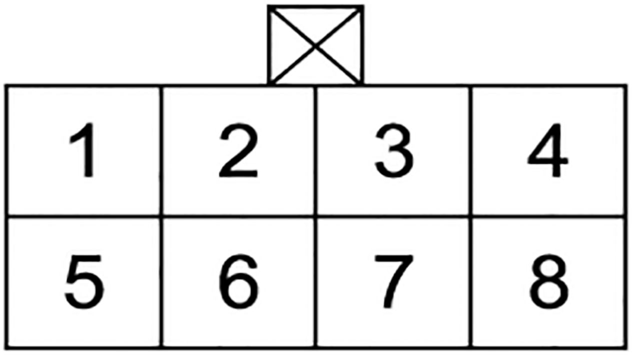
No.	Connector Face
H-108 Gray	 4507145 Engine □ Injector
H-170 Gray	 4498047 INST H. - Frame H.

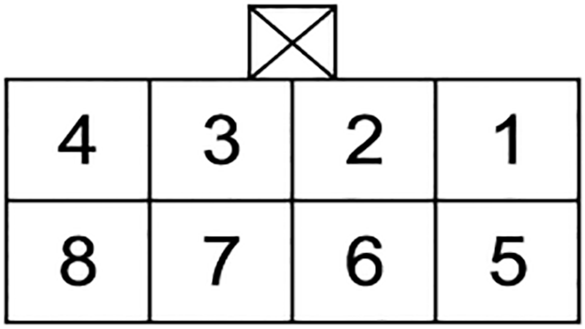
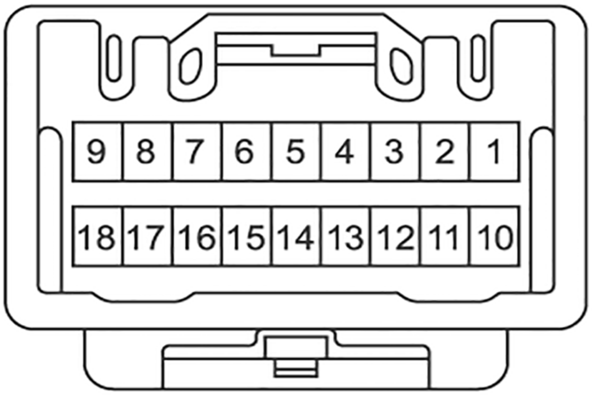
No.	Connector Face
H-170 Gray	 4498047 INST H. - Frame H.
H-171 Black	 4498401 Frame H. - SCR EXT H.

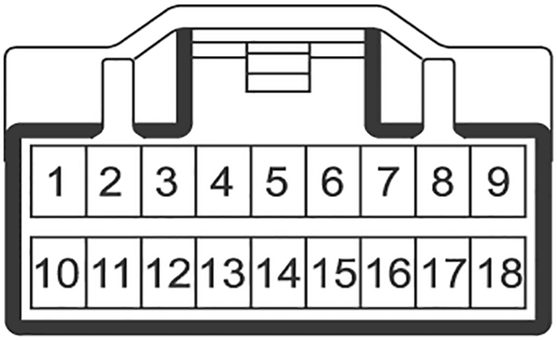
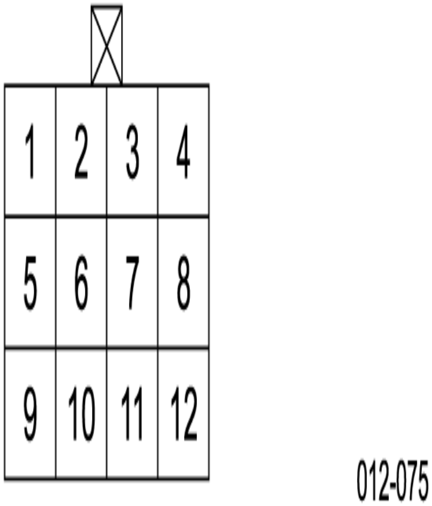
No.	Connector Face
H-171 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4498351 Frame H. - SCR EXT H.
H-172 Black	 3 2 1 6 5 4 8 7 4498419 Frame H. - Towing H.

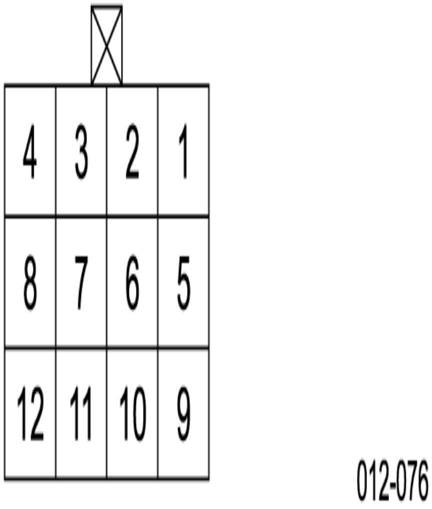
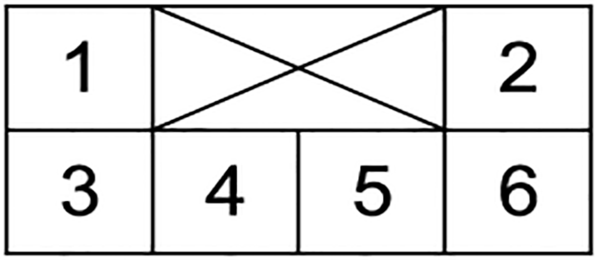
No.	Connector Face
H-172 Black	 1 2 3 4 5 6 7 8 4498422 Frame H. - Towing H.
H-173 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4498351 Frame H. - Dosing EXT H.

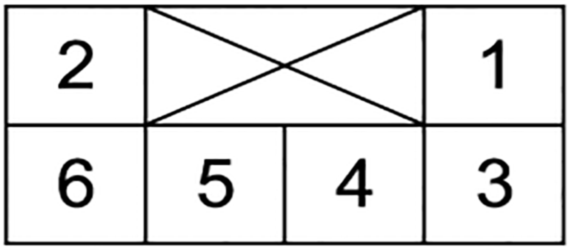
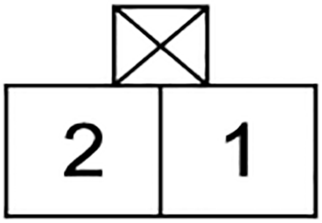
No.	Connector Face
H-173 Black	 4 3 2 1 8 7 6 5 12 11 10 9 16 15 14 13 4498347 Frame H. - Dosing EXT H.
H-174 Black	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 4498351 Frame H. - EXT SCR TEMP C/Cab H.

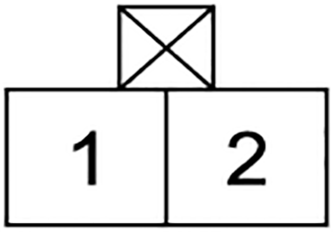
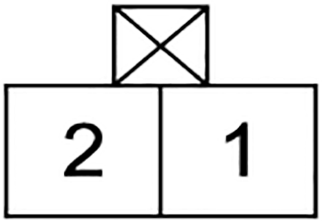
No.	Connector Face
H-174 Black	 4 3 2 1 8 7 6 5 12 11 10 9 16 15 14 13 4498347 Frame H. - EXT SCR TEMP C/Cab H.
H-175 Black	 4498005 Dosing EXT H. - EXT DPF H.

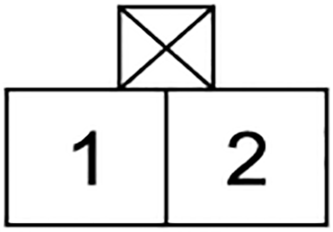
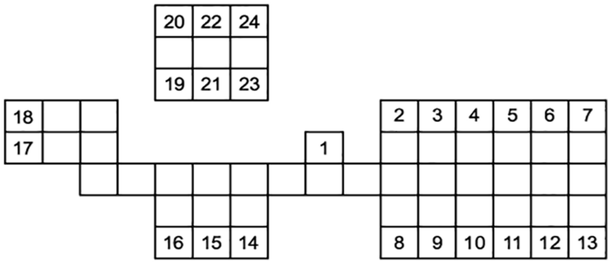
No.	Connector Face
H-175 Black	 4498424 Dosing EXT H. - EXT DPF H.
H-195 White	 9 8 7 6 5 4 3 2 1 18 17 16 15 14 13 12 11 10 4498431 INST H. - EXT Tacho H.

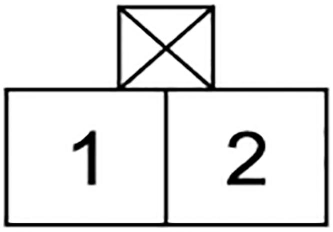
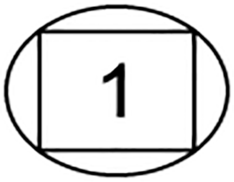
No.	Connector Face
H-195 White	 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 4498433 INST H. - EXT Tacho H.
H-218 Black	 1 2 3 4 5 6 7 8 9 10 11 12 012-075 4507146 Frame H. - Engine 3.

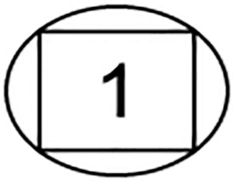
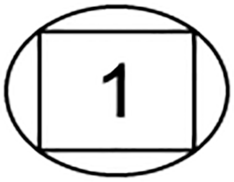
No.	Connector Face
H-218 Black	 4 3 2 1 8 7 6 5 12 11 10 9 012-076 4507147 Frame H. - Engine 3.
H-234 White	 4497878 EXT Telematics

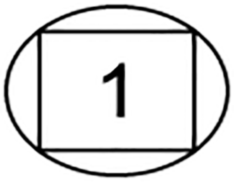
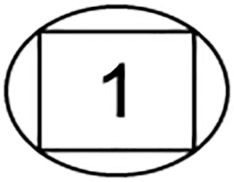
No.	Connector Face
H-234 White	 4498340 EXT Telematics
H-241 Black	 4498353 Speed Sensor RR-LH□Wheel Speed Sensor RR_LH

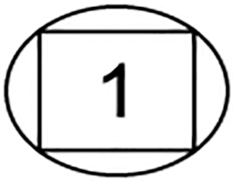
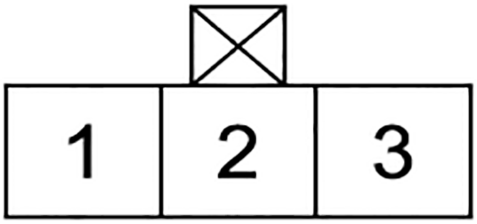
No.	Connector Face
H-241 Black	 4497871 Speed Sensor RR-LH□Wheel Speed Sensor
H-242 Black	 4498353 Speed Sensor RR-RH□Wheel Speed Sensor

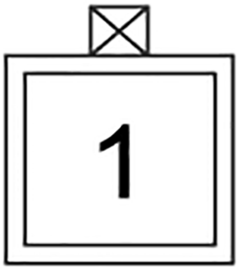
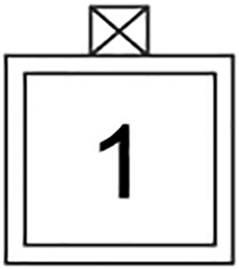
No.	Connector Face
H-242 White	 Speed Sensor RR-RH□Wheel Speed Sensor
J-2	 20 22 24 19 21 23 18 17 1 2 3 4 5 6 7 16 15 14 8 9 10 11 12 13 4498435 Relay Box

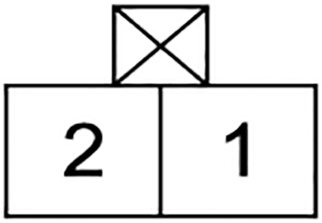
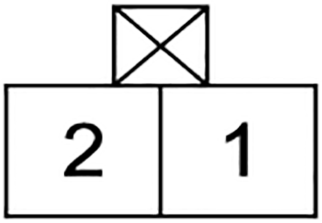
No.	Connector Face
J-4 Gray	 4497871 Condenser Fan
J-7	 4497888 Earth Body 10

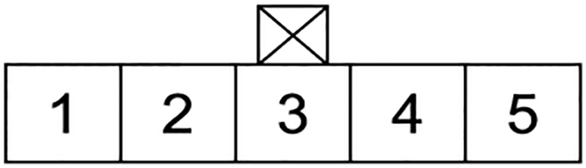
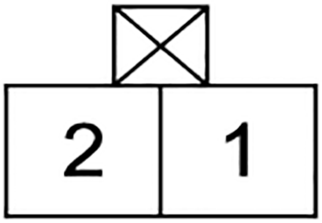
No.	Connector Face
J-8	 4497888 Earth Body 11
J-9	 4497888 Earth Body 12

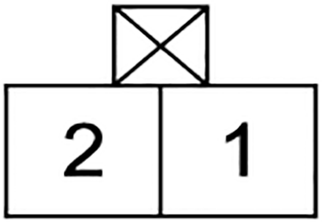
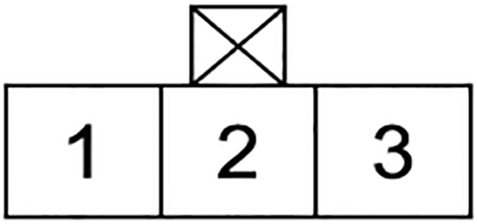
No.	Connector Face
J-10	 4497888 Earth Body 13
J-12	 4497888 Earth Body 4

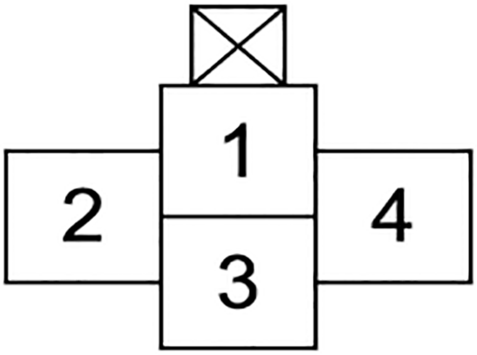
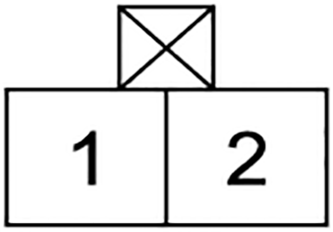
No.	Connector Face
J-13	 4497888 Earth Body 5
J-15 Black	 4497982 Fuel Tank Unit

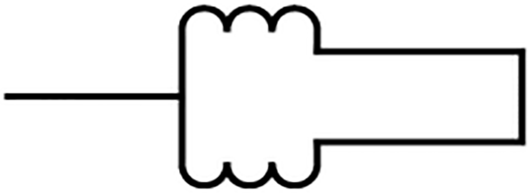
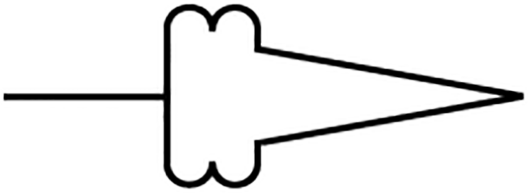
No.	Connector Face
J-19 White	 4497887 Horn (LH)
J-20 White	 4497887 Horn (RH)
J-22	The final page of connector list

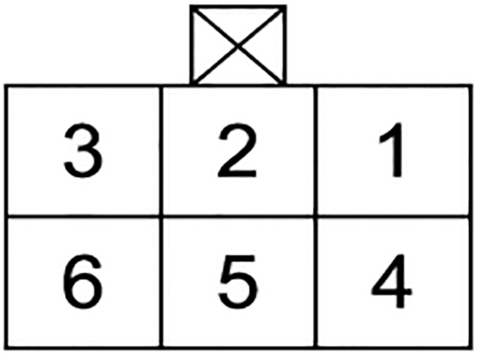
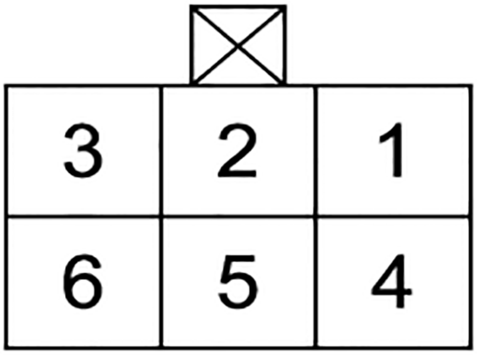
No.	Connector Face
J-34 Gray	 4498353 Exhaust Gas Temperature Sensor 1
J-35 Gray	 4498353 Exhaust Gas Temperature Sensor 2

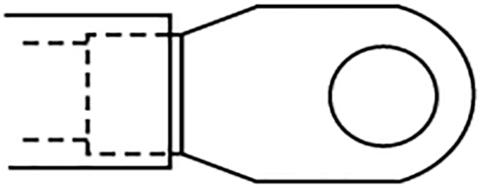
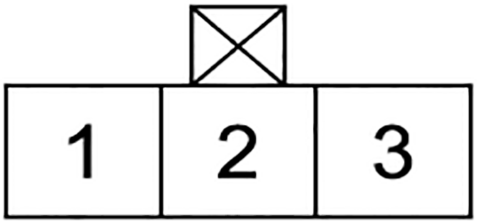
No.	Connector Face
J-38 Black	 4498169 MAF and IAT 1 Sensor
J-44 Black	 4498353 Wheel Speed Sensor Front Left

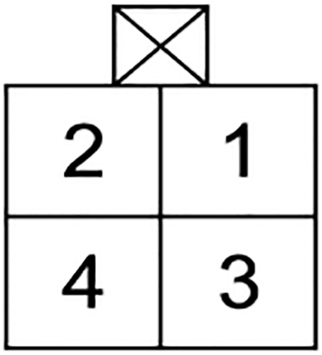
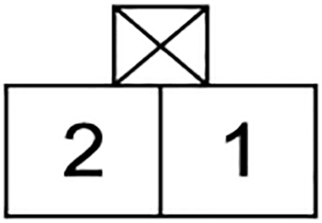
No.	Connector Face
J-45 Black	 4498353 Wheel Speed Sensor Front Right
J-48 Gray	 4497982 Vehicle Speed Sensor

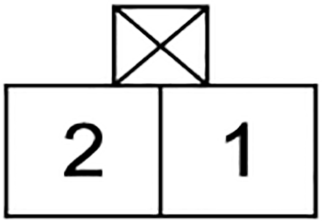
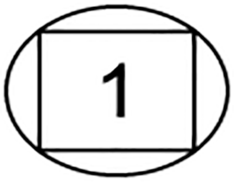
No.	Connector Face
J-55 Black	 1 2 4 3 4498463 Triple Pressure Switch
J-59 Black	 Exhaust Brake Solenoid Valve

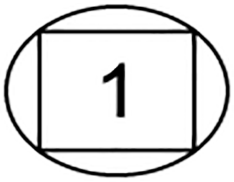
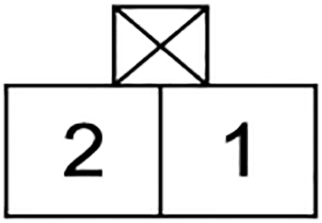
No.	Connector Face
J-71 Green	 4498465 License Plate Light (A)
J-72 Green	 4498467 License Plate Light (B)

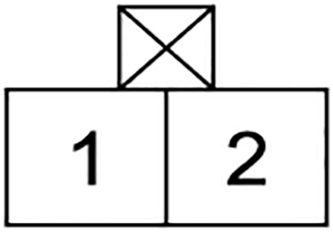
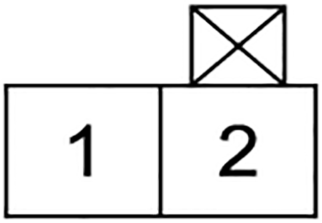
No.	Connector Face
J-73 White	 4498462 Rear Combination Light (LH)
J-74 White	 4498462 Rear Combination Light (RH)

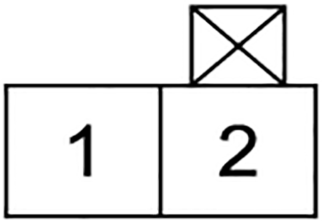
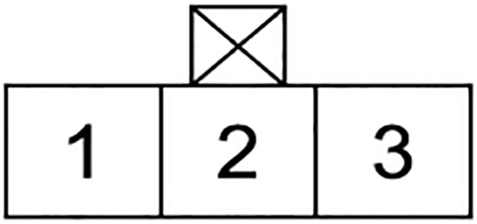
No.	Connector Face
J-100	 4498317 Starter (D)
J-102 Black	 4497982 Exhaust Differential Pressure Sensor
J-105	The final page of connector list

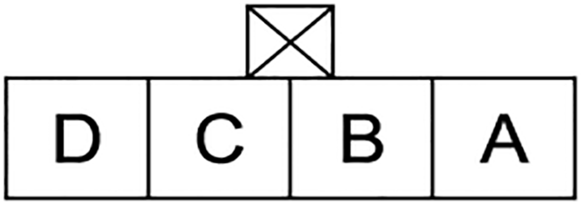
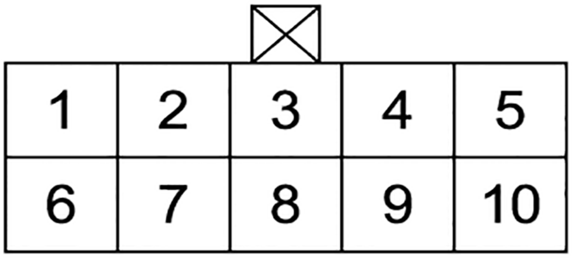
No.	Connector Face
J-106 Black	 4498425 Brake Fluid Level Switch (HBB)
J-107 Black	 4498353 Wheel Speed Sensor Front Right

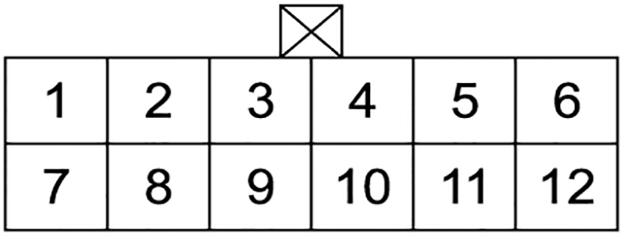
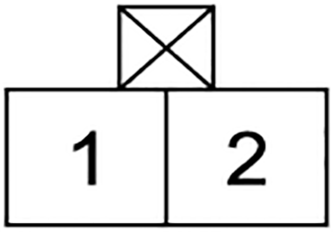
No.	Connector Face
J-108 Black	 4498353 Wheel Speed Sensor Front Left
J-109	 4497888 Earth Body 14

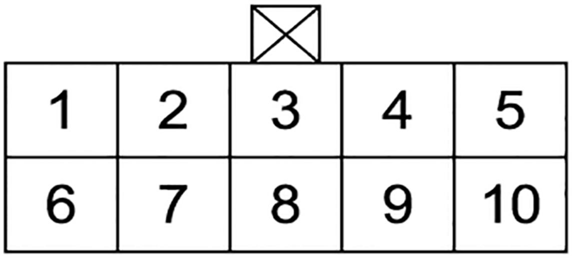
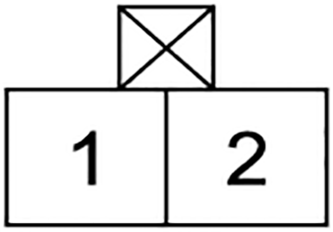
No.	Connector Face
J-110	 4497888 Earth Body 20
J-111 Black	 4498353 Back Buzzer (Upfitter Install)

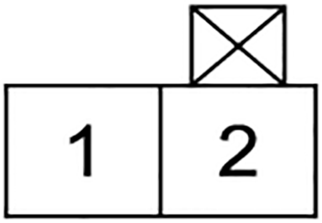
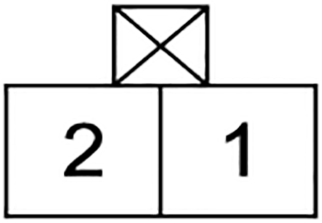
No.	Connector Face
J-112 White	 4497871 ATF Temperature Sensor (Torque Converter Clutch)
J-113 Black	 4497979 Diode 3

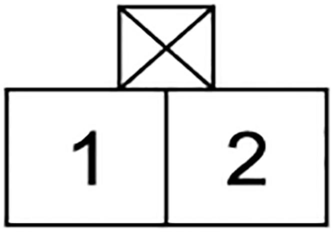
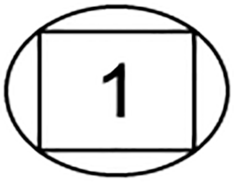
No.	Connector Face
J-114 Black	 4497979 Diode 1
J-117 Black	 4497982 Fuel Tank Unit In

No.	Connector Face
J-118 Black	 4498464 Rear Manufacture Connector
J-119 Gray	 4497881 Frame Front H.□ TM Solenoid 1

No.	Connector Face
J-120 Black	 4497869 Frame Front H.□ TM Solenoid 2
J-121 Gray	 4497871 Frame Front H.□ TM Speed

No.	Connector Face
J-122 Black	 4497881 Frame Front H.□ TM NSSW
J-123 Gray	 4497871 Input shaft speed (ISS) sensor

No.	Connector Face
J-135 Black	 4497979 Diode 2
J-137 Black	 4498353 Rear Body Connector

No.	Connector Face
J-138 Gray	 4497871 Fuel Sedimenter Switch
J-141	 4497888 Earth Body SCR 1

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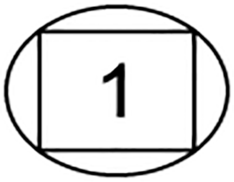
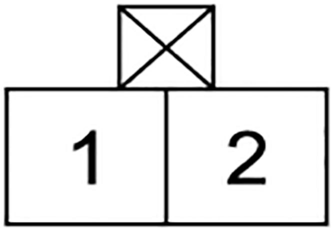
J-142	 4497888 Earth Body 10
J-143	The final page of connector list
J-144	The final page of connector list
J-146 Dark Gray	 4497871 Charge Air Cooler (CAC) Temperature Sensor 2

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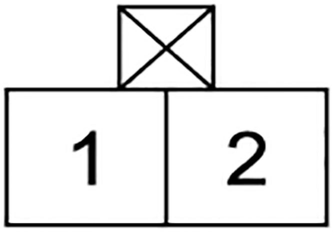
Blue</td><td>
4497871
Air Cleaner Switch</td></tr>
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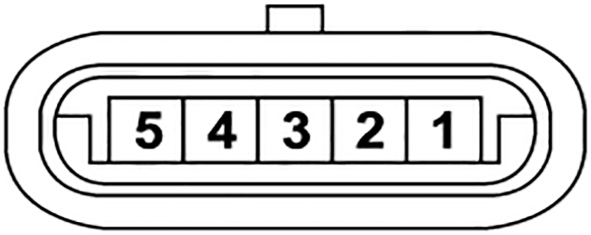
Black</td><td>
4498482
NOx Sensor 1</td></tr>
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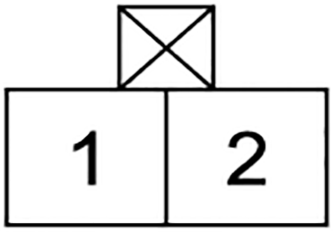
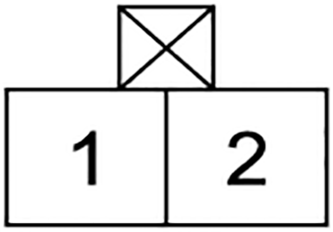
J-149 Black	 4497871 Diesel Exhaust Fluid (DEF) Injector
J-162 Black	 4497871 Resistor

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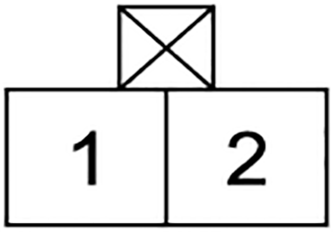
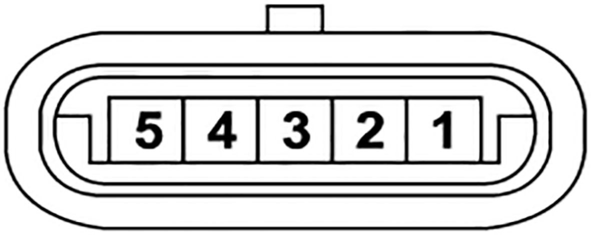
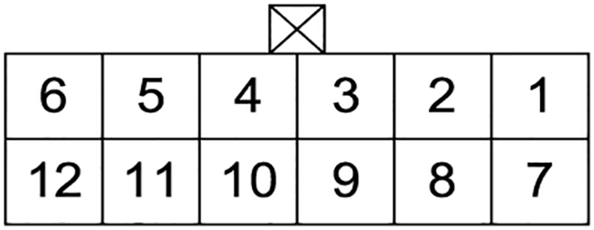
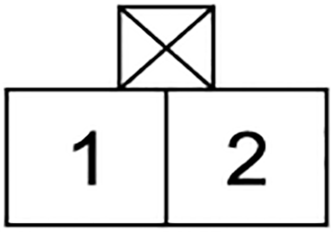
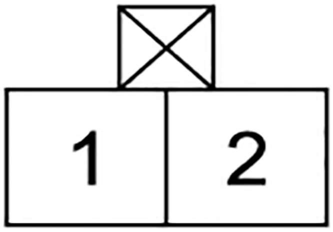
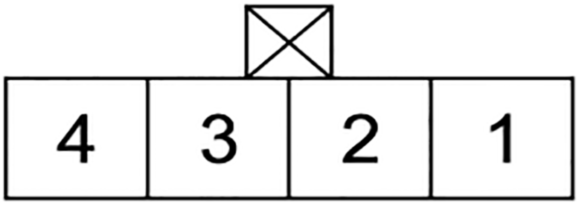
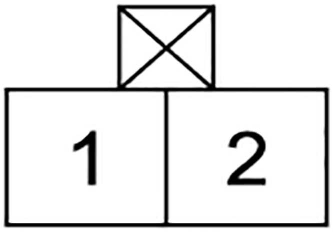
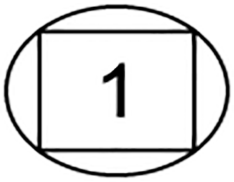
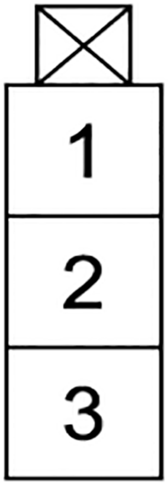
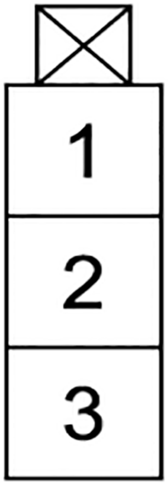
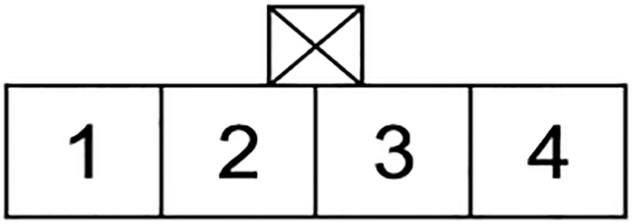
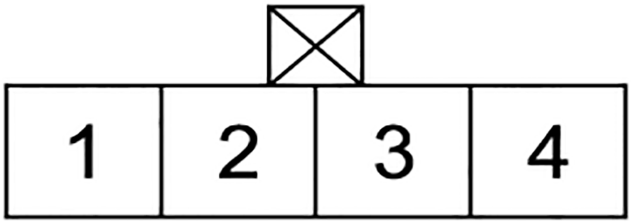
J-163 Black	 Exhaust Gas Temperature (EGT) Sensor 3
J-164 Black	 5 4 3 2 1 4498482 NOx Sensor 2

No.	Connector Face
J-165 Black	 6 5 4 3 2 1 12 11 10 9 8 7 4498483 Diesel Exhaust Fluid (DEF) Pump
J-166 Gray	 Diesel Exhaust Fluid (DEF) Tank Heater Coolant Control Valve

No.	Connector Face
J-167 Black	 4497871 Diesel Exhaust Fluid (DEF) Tank Level and Temperature Sensor
J-203	The final page of connector list
J-204 Black	 4498494 PM Sensor

No.	Connector Face
J-241 Black	 4497871 Fuel Heater
J-282	 4497888 Battery (+) 1

No.	Connector Face
L-4 White	 4498499 Dome Light
L-5 White	 4498499 Rear Dome Light

No.	Connector Face
L-20 White	 1 2 3 4 4498036 J/C 3
L-21 White	 1 2 3 4 4498036 J/C 4

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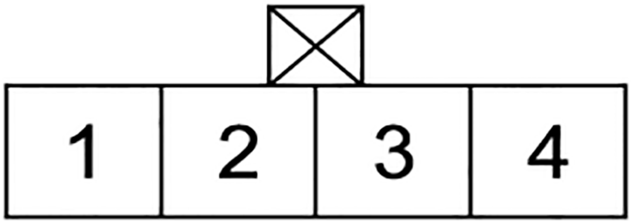
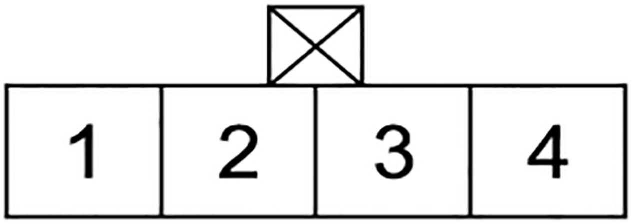
L-22 White	 1 2 3 4 4498036 J/C 5
L-23 White	 1 2 3 4 4498036 J/C 7

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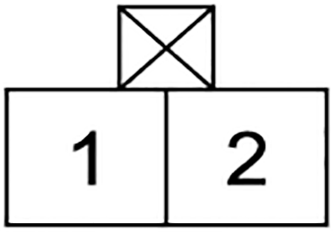
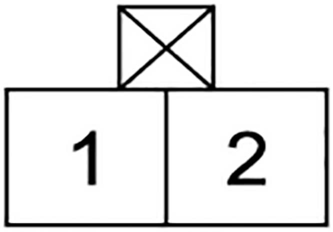
L-24 White	 4497871 Marker 1
L-25 White	 4497871 Marker 2

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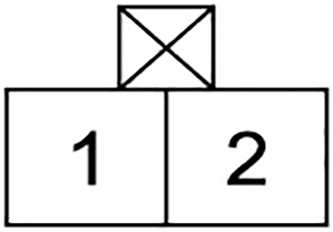
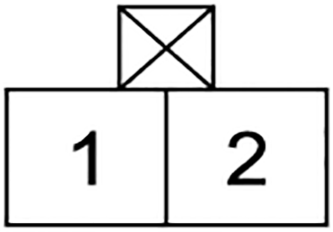
L-26 White	 4497871 ID 1
L-27 White	 4497871 ID 2

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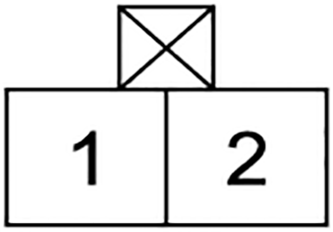
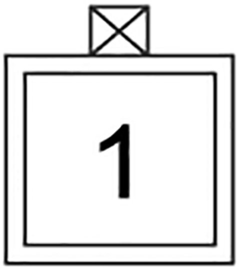
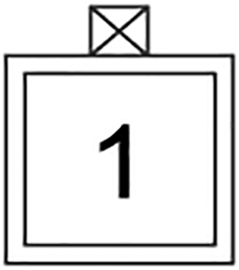
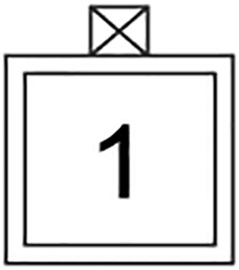
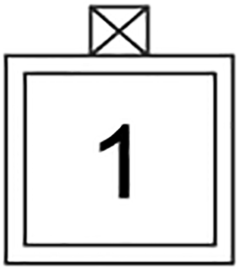
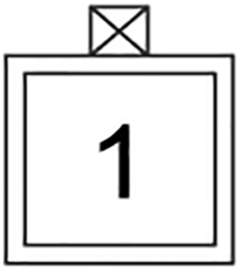
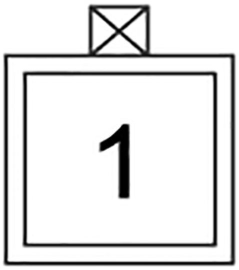
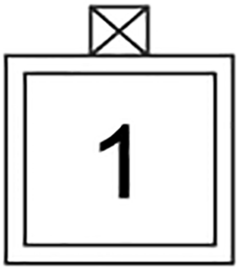
L-28 White	 ID 3
N-7 White	 Door Switch (RH)

No.	Connector Face
N-8 White	 4497887 Door Switch (RH) (C-Cab)
N-9 Black	 4497887 Rear Door Switch (LH)

No.	Connector Face
N-10 Black	 4497887 Rear Door Switch (RH)
N-12 White	 4497887 Door Switch (LH)

No.	Connector Face
N-13 White	 4497887 Door Switch (LH) (C-Cab)
N-14 White	 4497887 Parking Brake Switch

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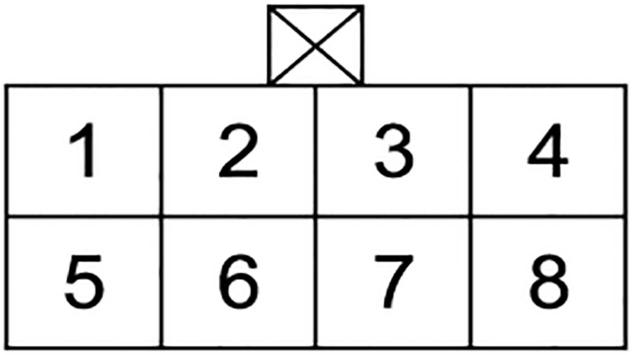
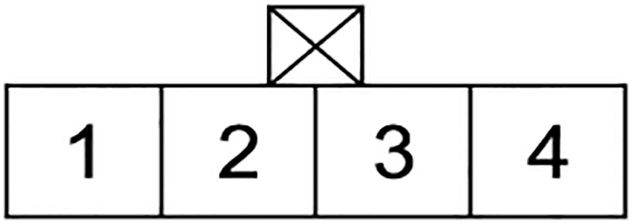
N-16 White	 4498005 Shift Lever
N-19 White	 4498036 J/C -1

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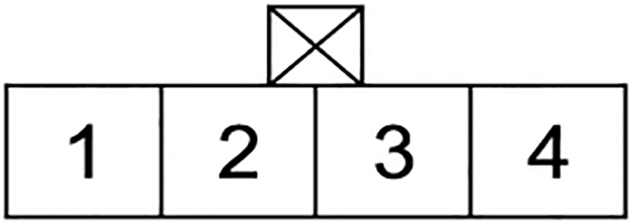
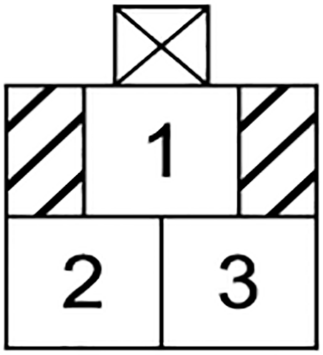
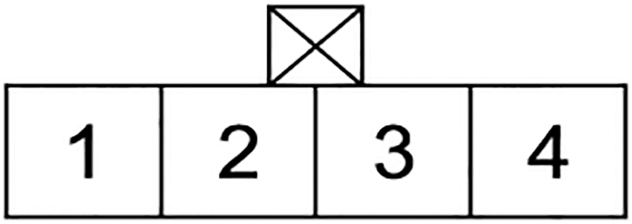
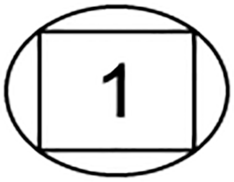
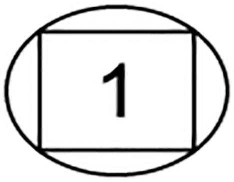
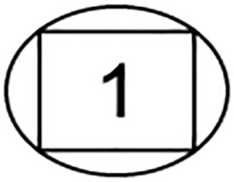
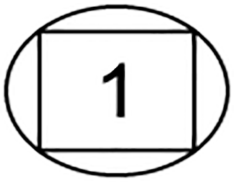
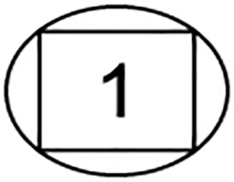
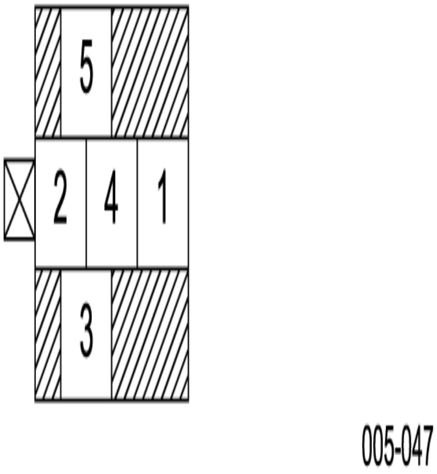
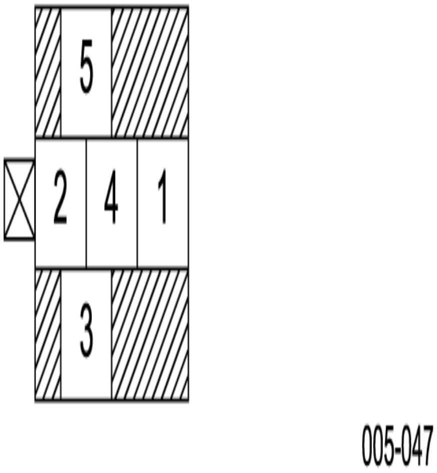
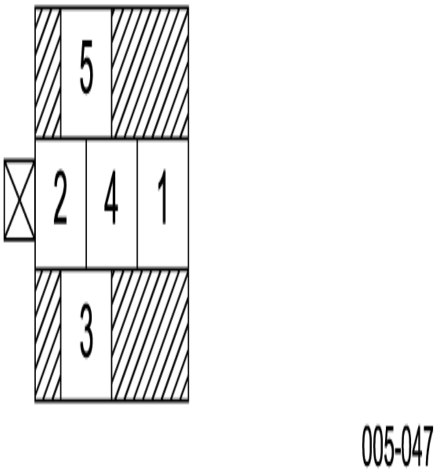
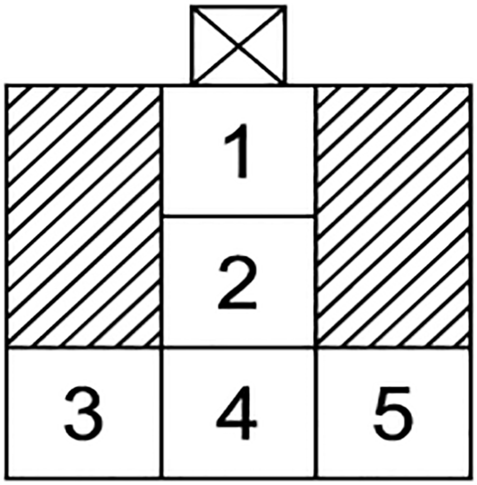
N-30 White	 4498036 Overdrive Off Switch
N-31 White	 4497992 Rear HTR

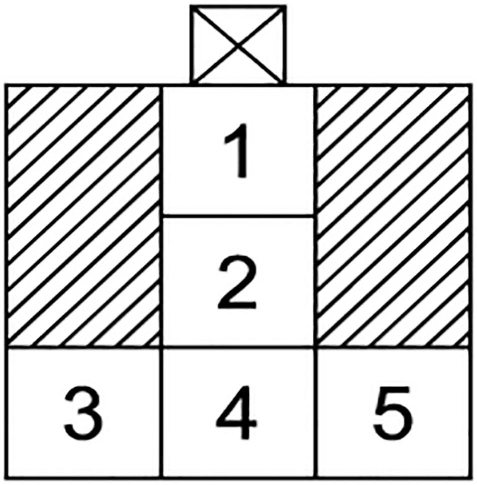
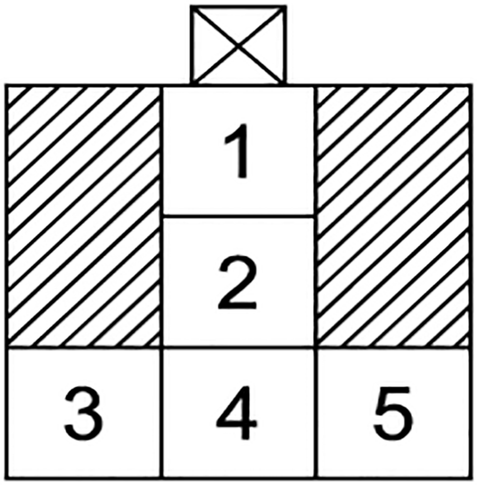
No.	Connector Face
N-32 White	 4498036 J/C 29
P-1	 4497888 Battery (+)

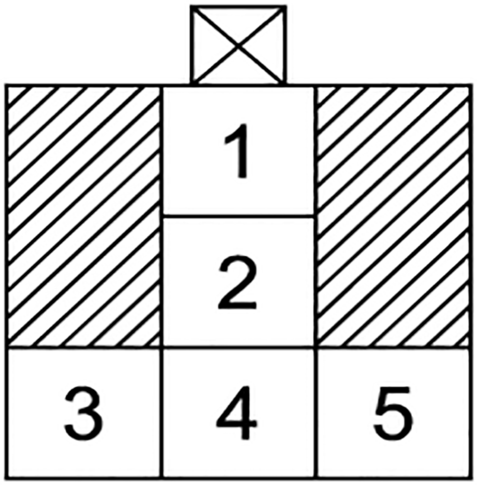
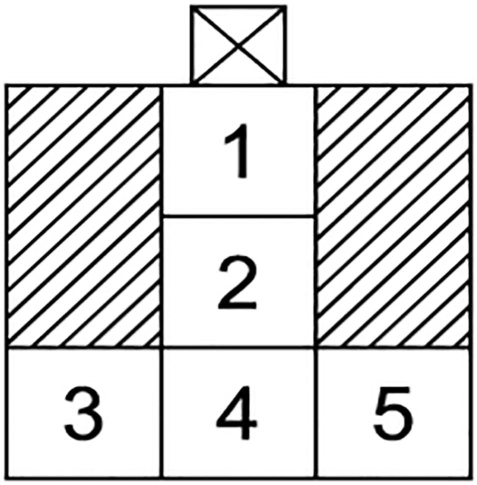
No.	Connector Face
P-2	 4497888 Battery (-)
P-3	 4497888 Battery (+)

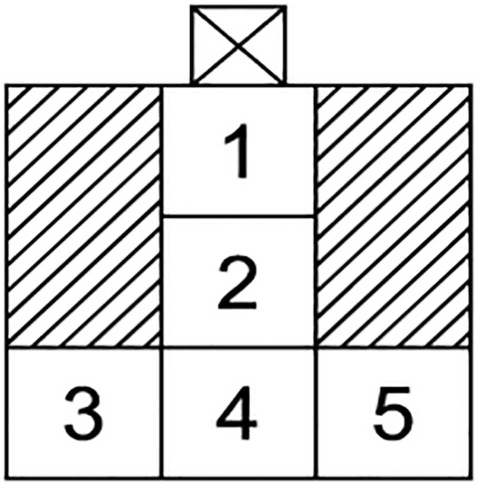
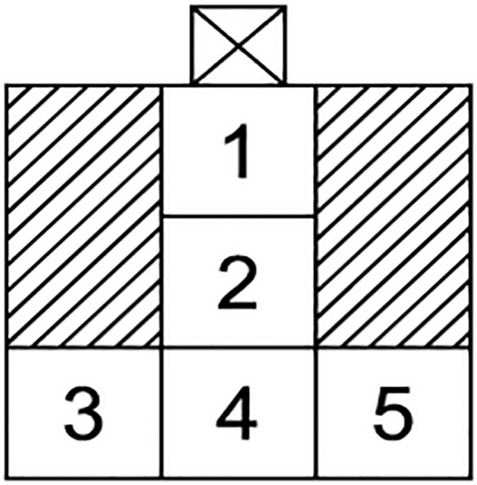
No.	Connector Face
P-4	 4497888 Battery (-)
P-5	 4497888 Battery Earth

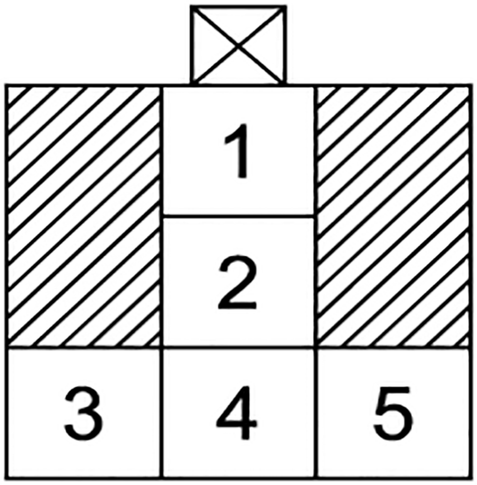
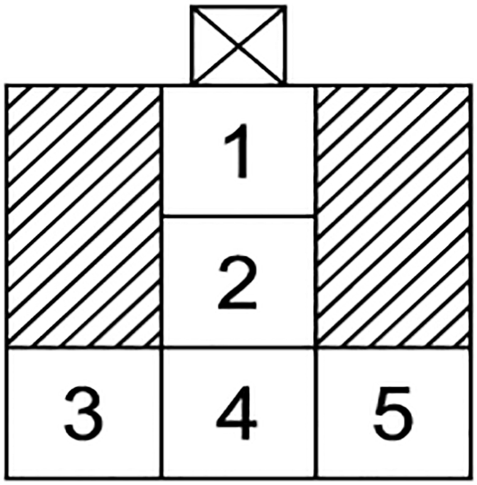
No.	Connector Face
X-1 White	 5 2 4 1 3 005-047 4507148 Stoplight Relay
X-2 White	 5 2 4 1 3 005-047 4507148 DRL Relay

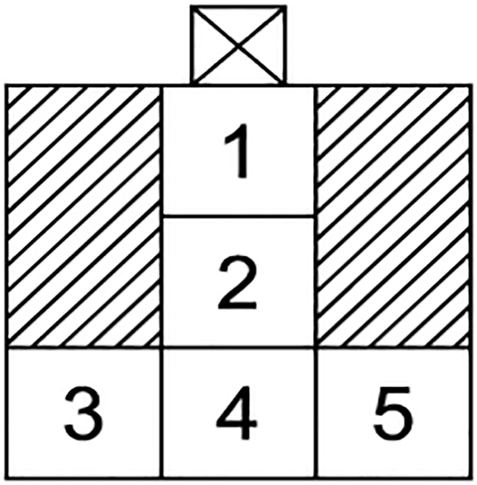
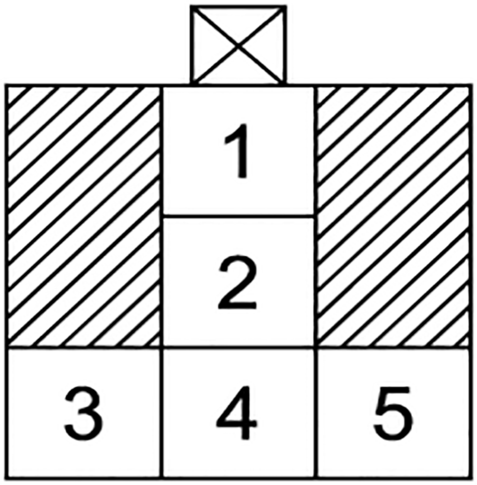
No.	Connector Face
X-3 White	 4507148 Key On Relay
X-4 White	 4498012 TCM Relay

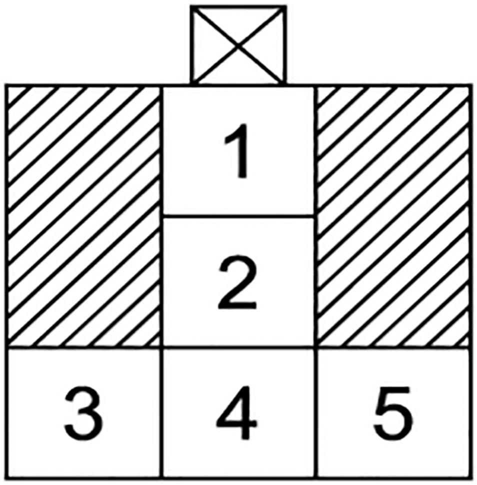
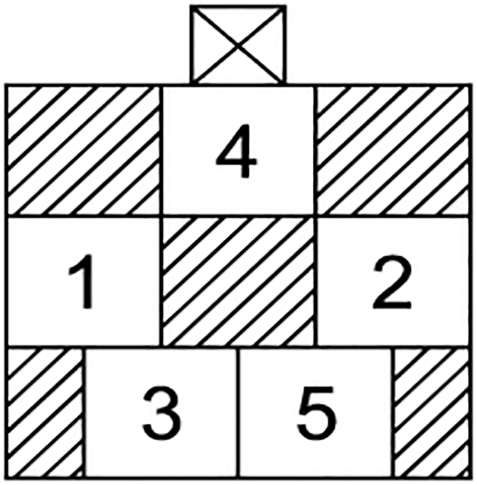
No.	Connector Face
X-5 White	 4498012 P/N Start Relay
X-6 White	 4498012 Wiper Main Relay

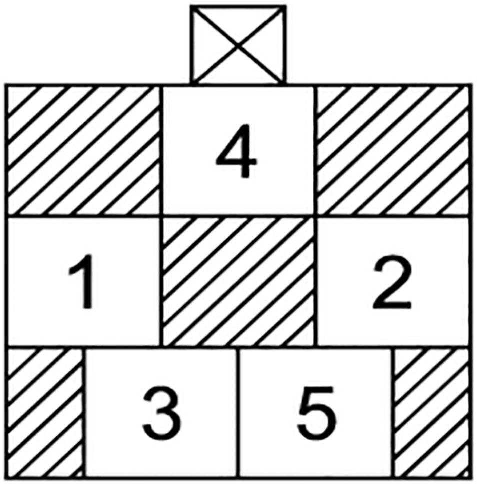
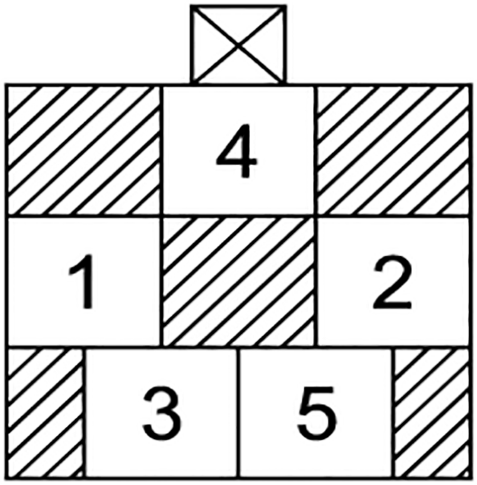
No.	Connector Face
X-7 White	 4498012 Horn Relay
X-8 White	 4498012 Wiper Hi/Lo Relay

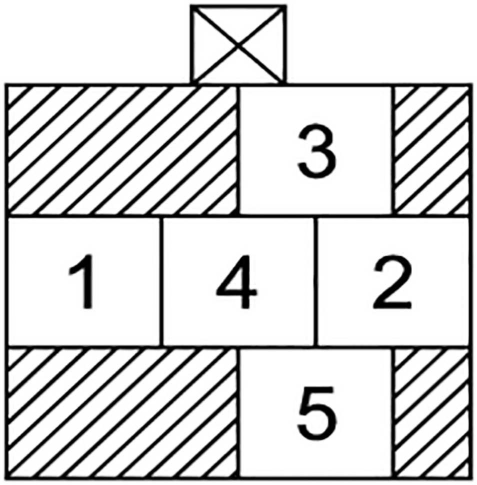
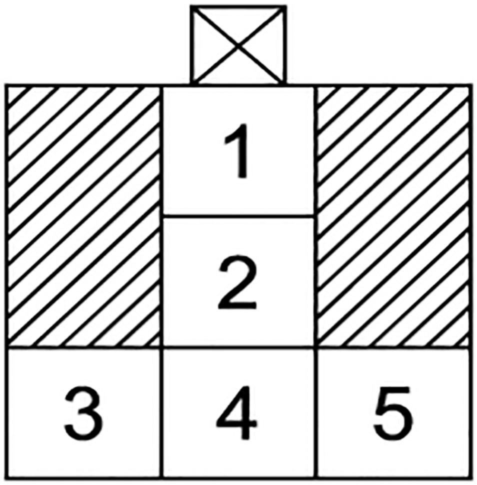
No.	Connector Face
X-9 White	 4498012 Trailer Stop Relay
X-10 White	 4498012 Rear Power Window Relay

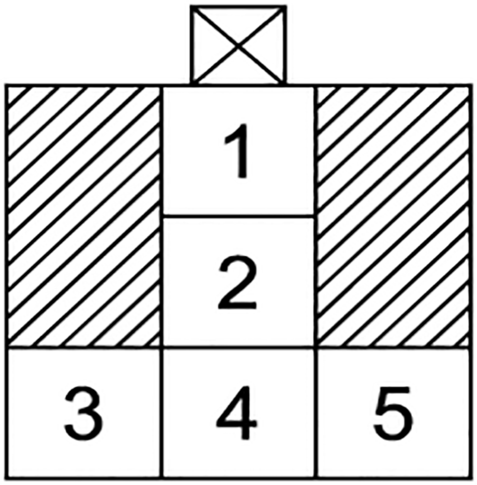
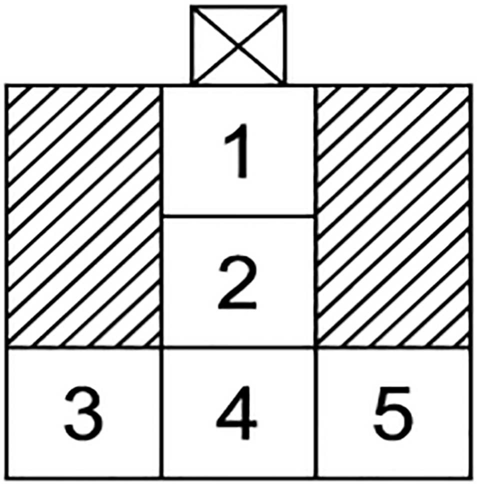
No.	Connector Face
X-12 White	 1 2 3 4 5 4498012 Front Power Window Relay
X-13 White	 1 2 3 4 5 4498012 Headlight(Lo) Relay

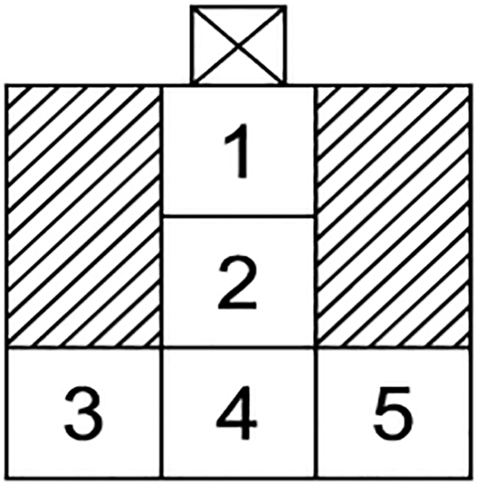
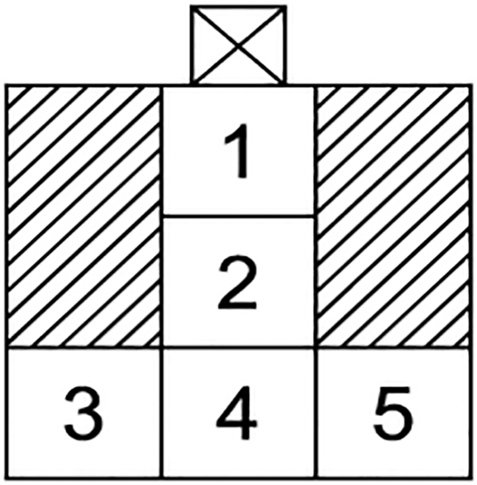
No.	Connector Face
X-14 White	 1 2 3 4 5 4498012 Vacuum Pump Relay
X-15 White	 1 2 3 4 5 4498012 Headlight (Hi) Relay

No.	Connector Face
X-16 White	 4498012 Tail Light Relay
X-17 Gray	 4498548 Starter Relay

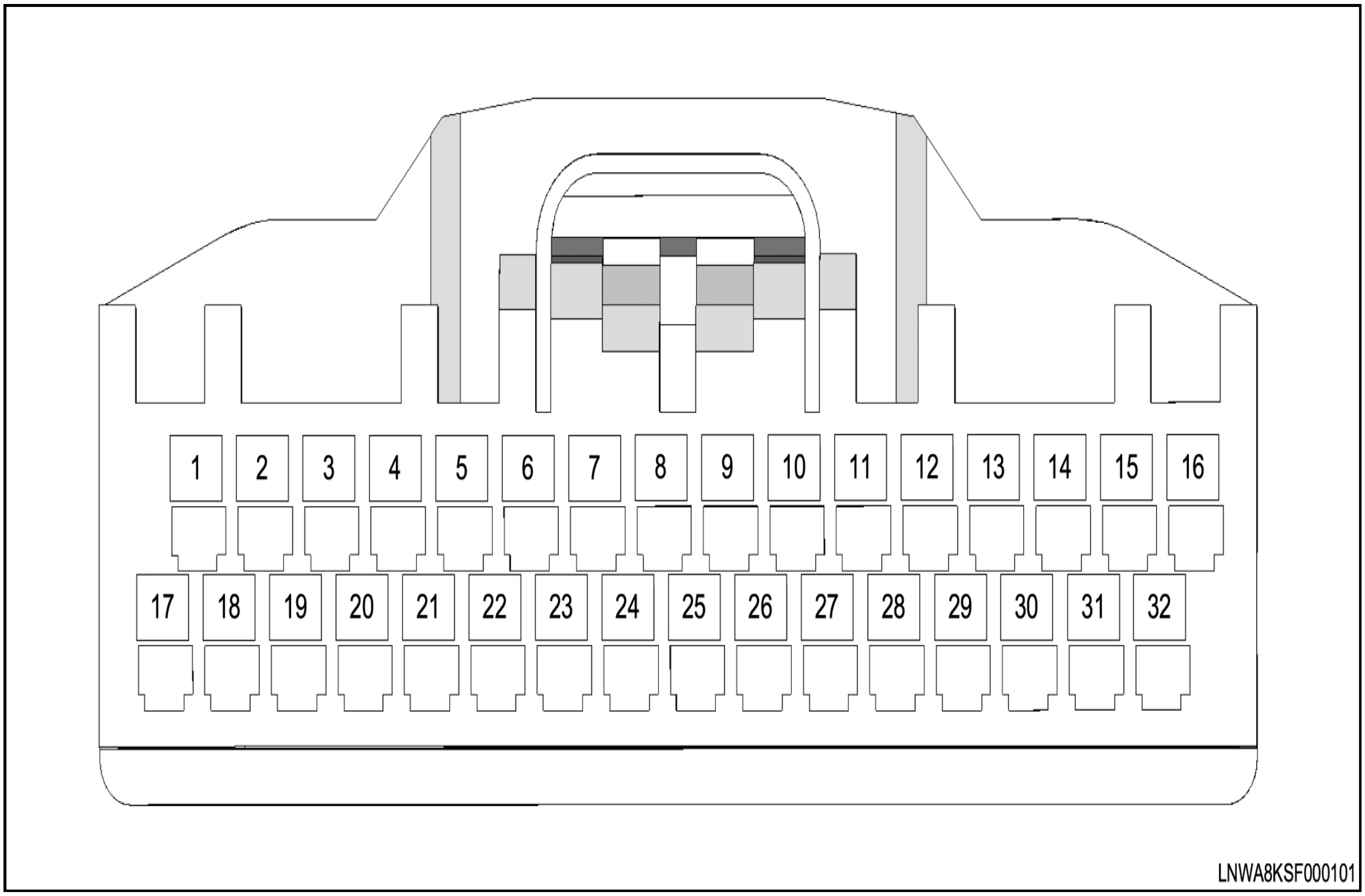
No.	Connector Face
X-18 Gray	 4498548 ECM Main Relay
X-19 Black	 4498548 NOx and Diesel Exhaust Fluid (DEF) Sensor Relay

No.	Connector Face
X-20 Gray	 4498540 Magnetic Clutch Relay
X-21 Gray	 4498012 Condenser Fan Relay

No.	Connector Face
X-22 Gray	 4498012 Rearr Dome Light Relay
X-23 Gray	 4498012 Heater Valve

No.	Connector Face
X-26 Black	 4498012 Marker Light Relay
X-30 Black	 4498012 Fuel Heater Relay

B-451 (Gray) FMS CAN Interface Control Unit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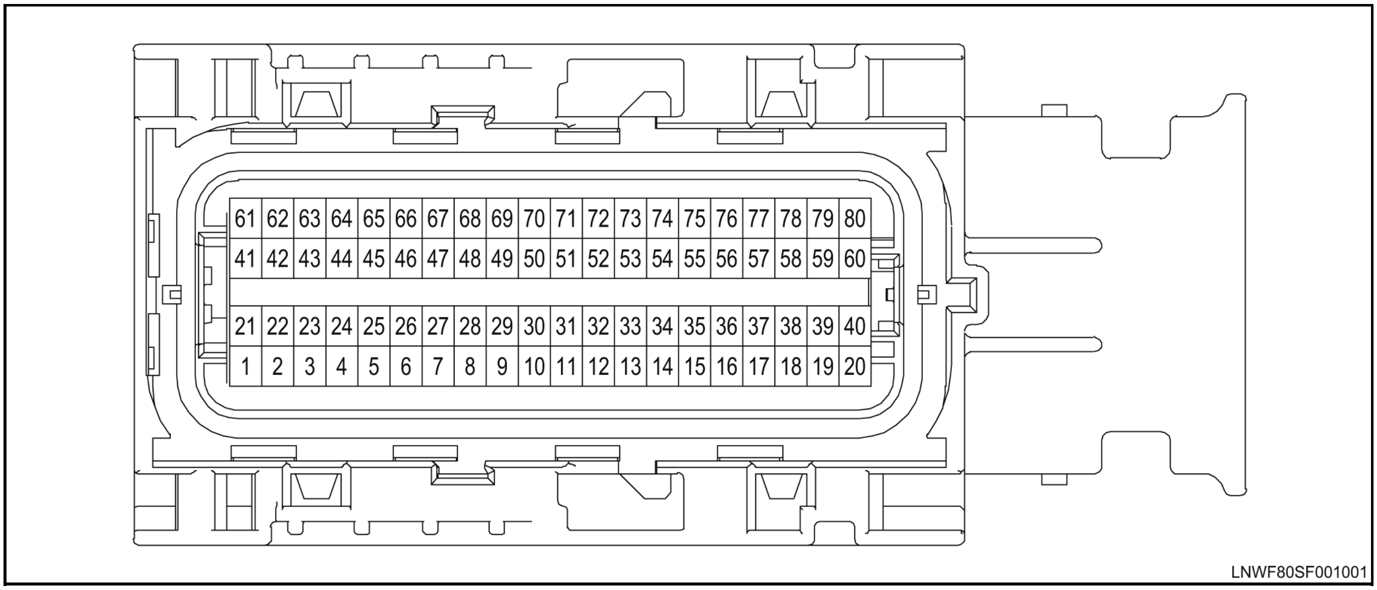
LNWA8KSF000101

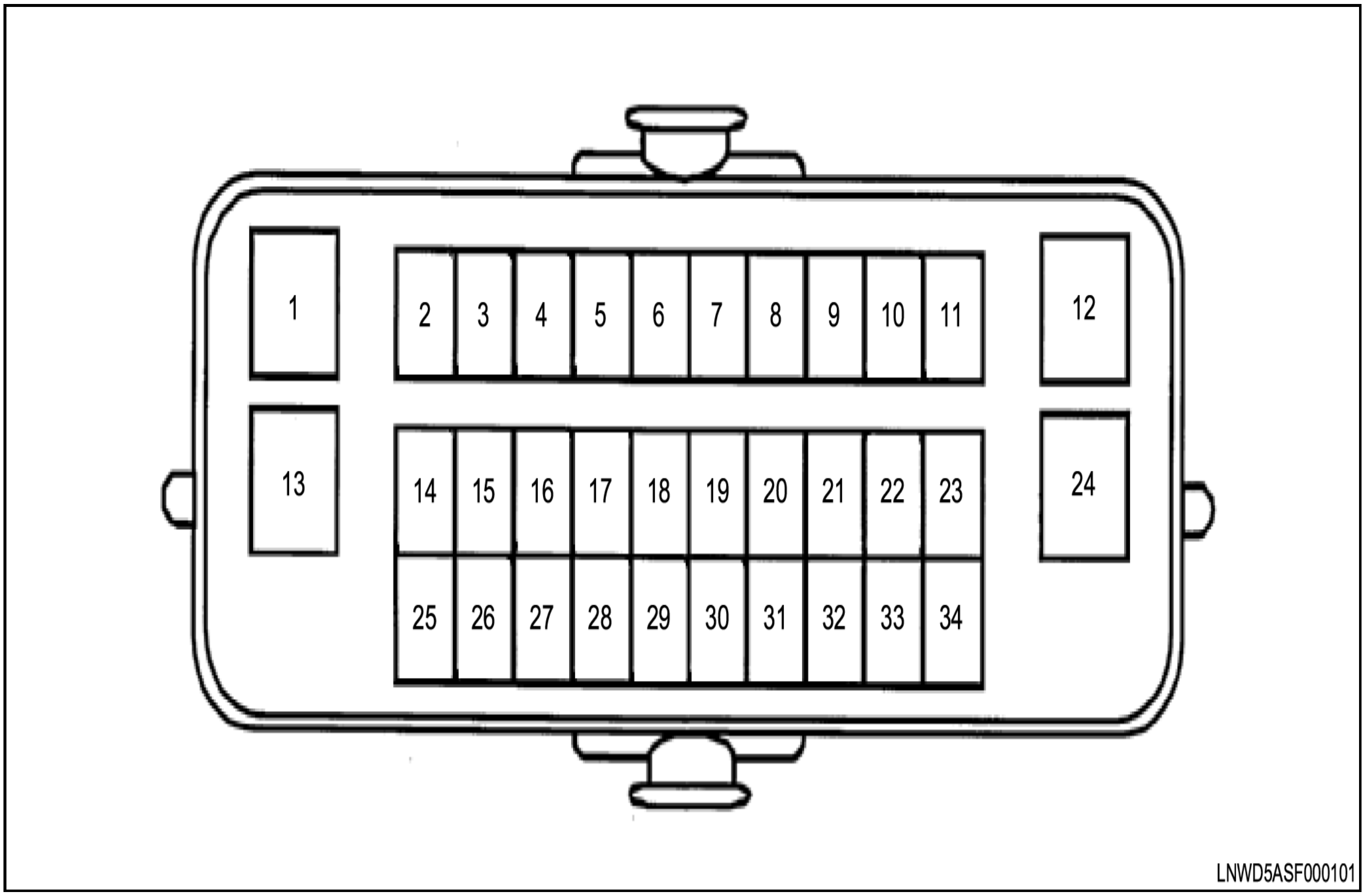
4498554

E-73 (Black) ECM


61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
LNWF80SF001001

4503841

J-22 (Black) EHCU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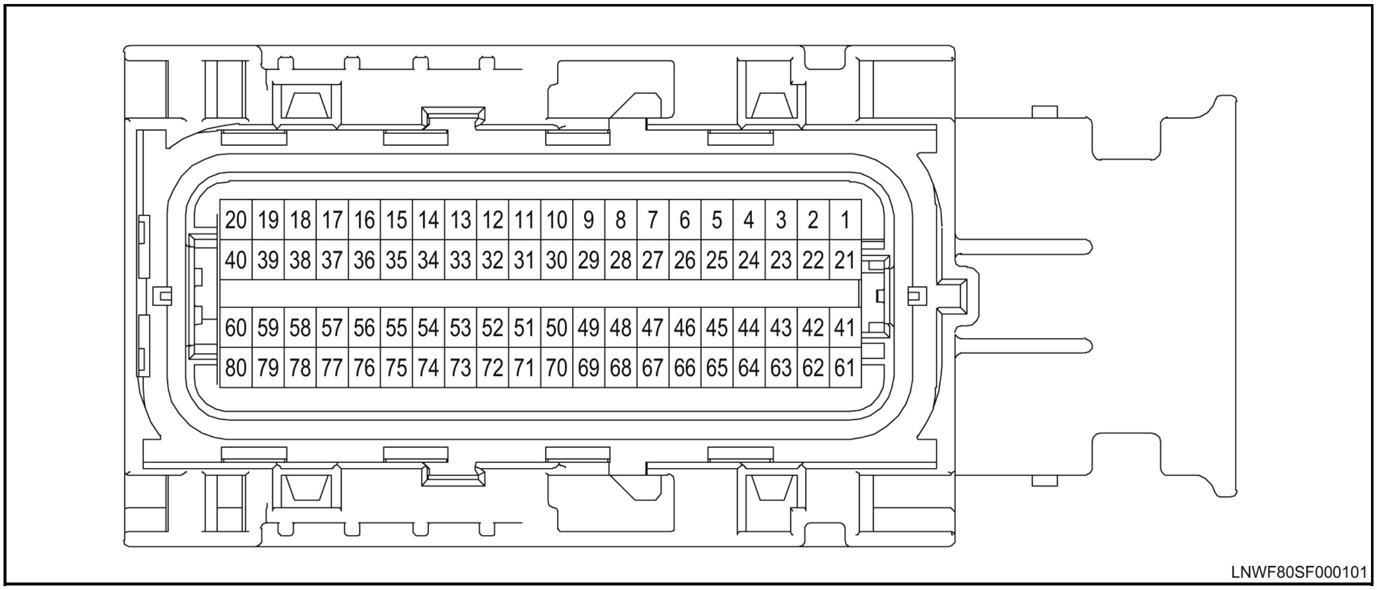
LNWD5ASF000101

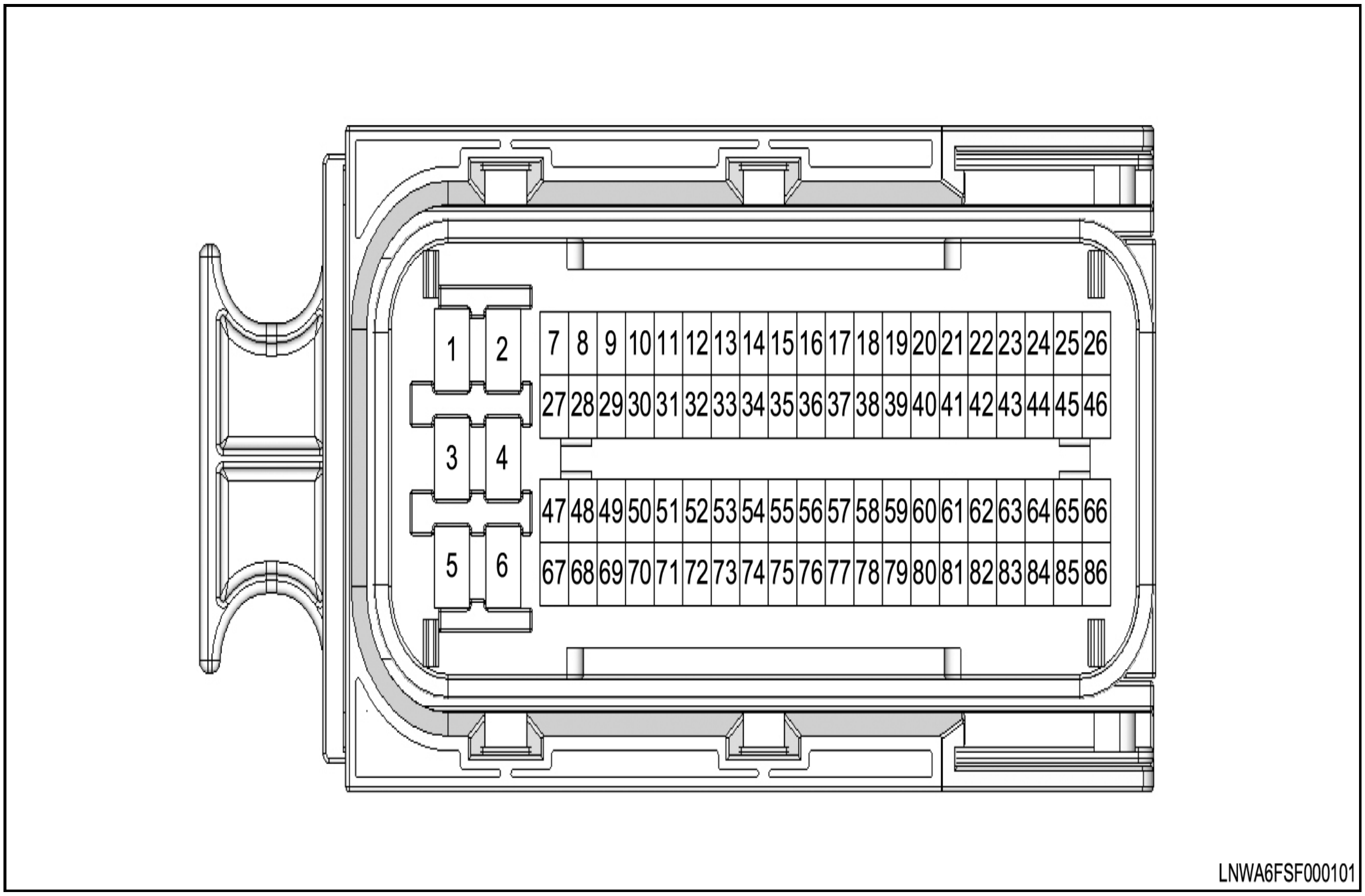
4498599

J-105 (Black) ECM


20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21
60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61
LNWF80SF000101

4503838

J-143 (Black) Diesel Exhaust Fluid (DEF) Control Module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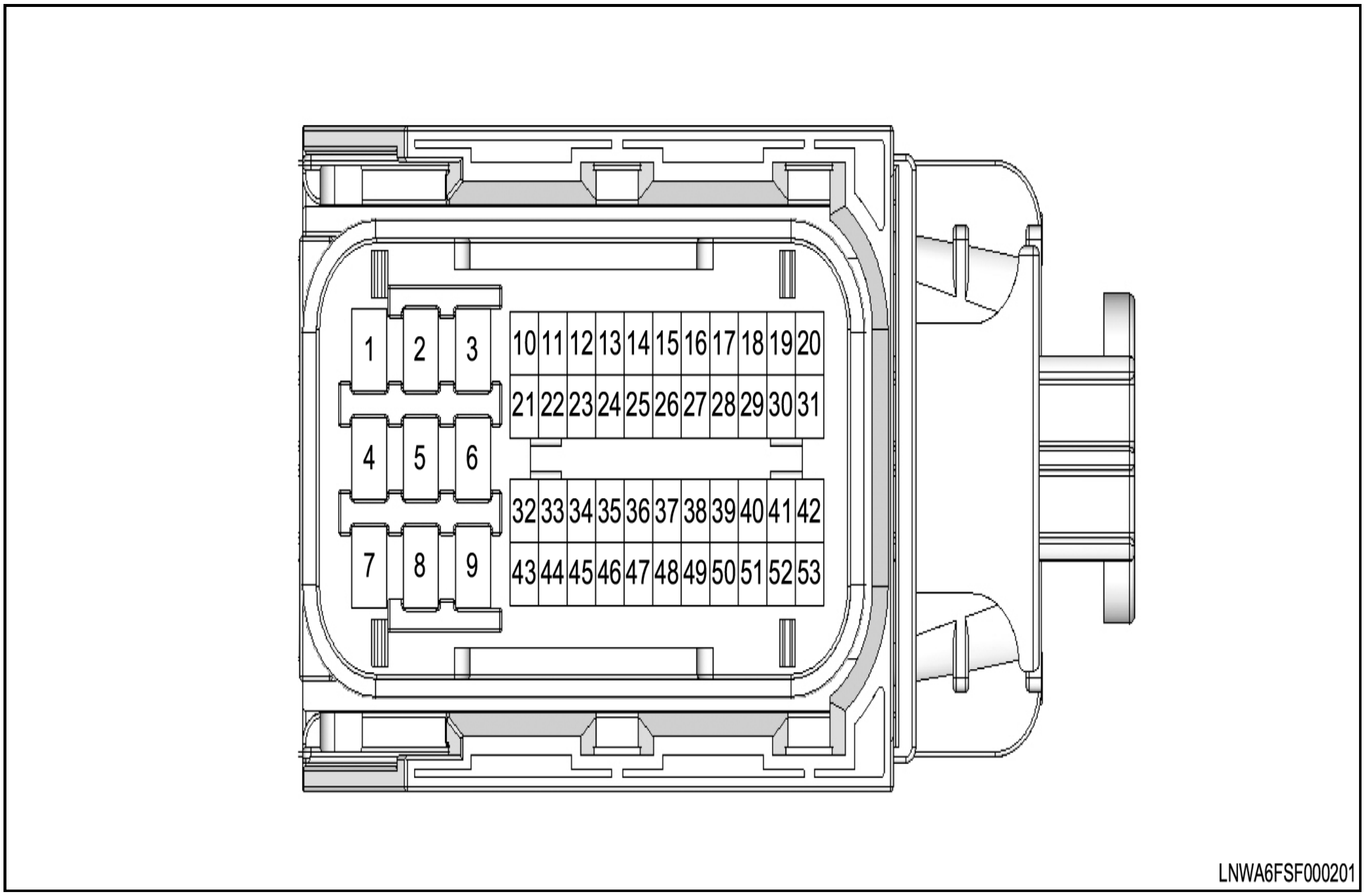
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66
67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86
LNWA6FSF000101

4498686

J-144 (Black) Diesel Exhaust Fluid (DEF) Control Module


1
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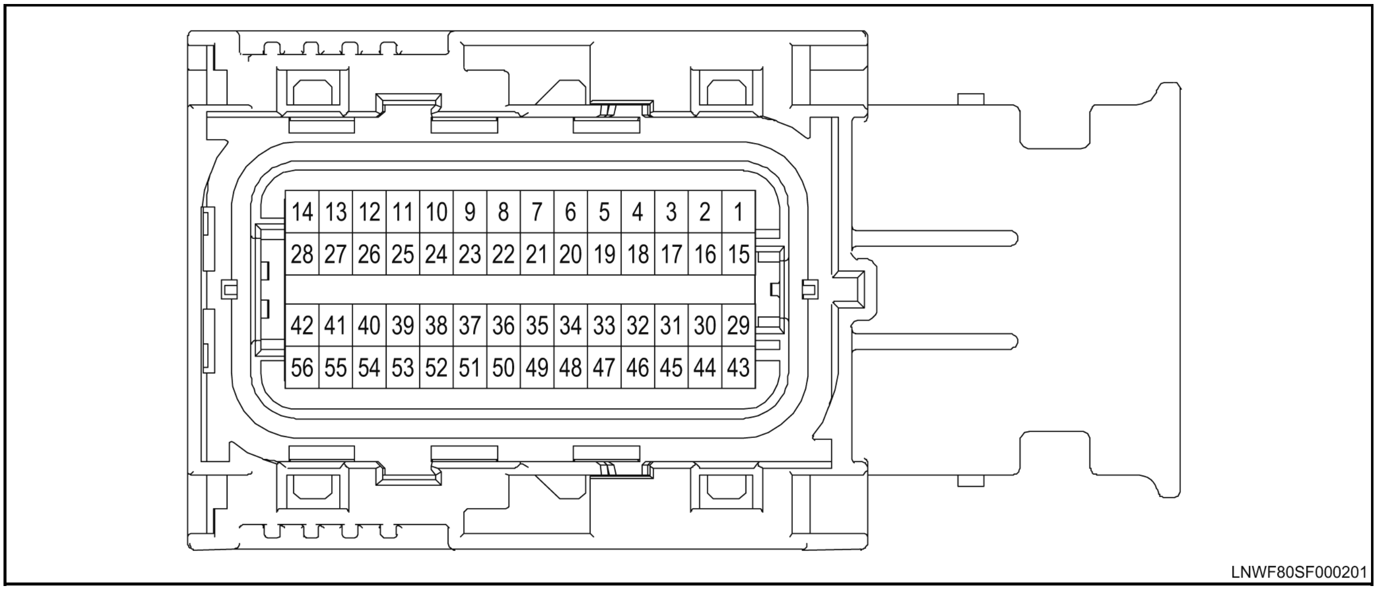
10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31
32 33 34 35 36 37 38 39 40 41 42
43 44 45 46 47 48 49 50 51 52 53
LNWA6FSF000201

4498694

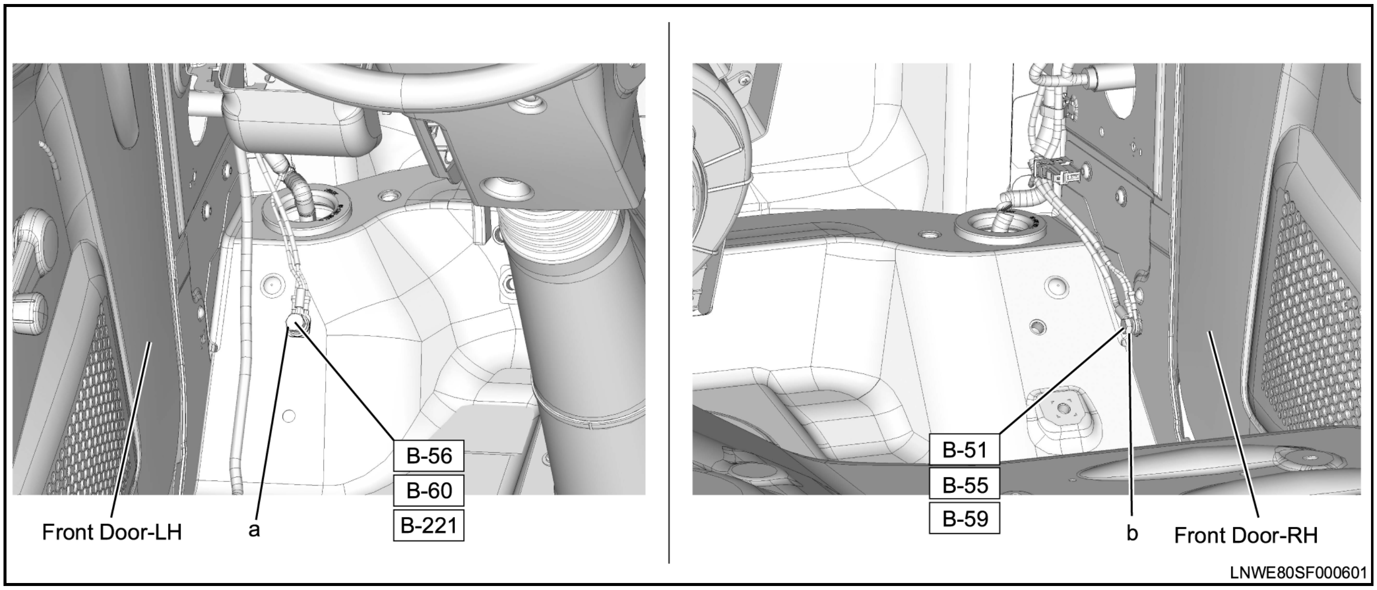
J-203 (Black) ECM


14 13 12 11 10 9 8 7 6 5 4 3 2 1
28 27 26 25 24 23 22 21 20 19 18 17 16 15
42 41 40 39 38 37 36 35 34 33 32 31 30 29
56 55 54 53 52 51 50 49 48 47 46 45 44 43
LNWF80SF000201

4503860

Component Locator

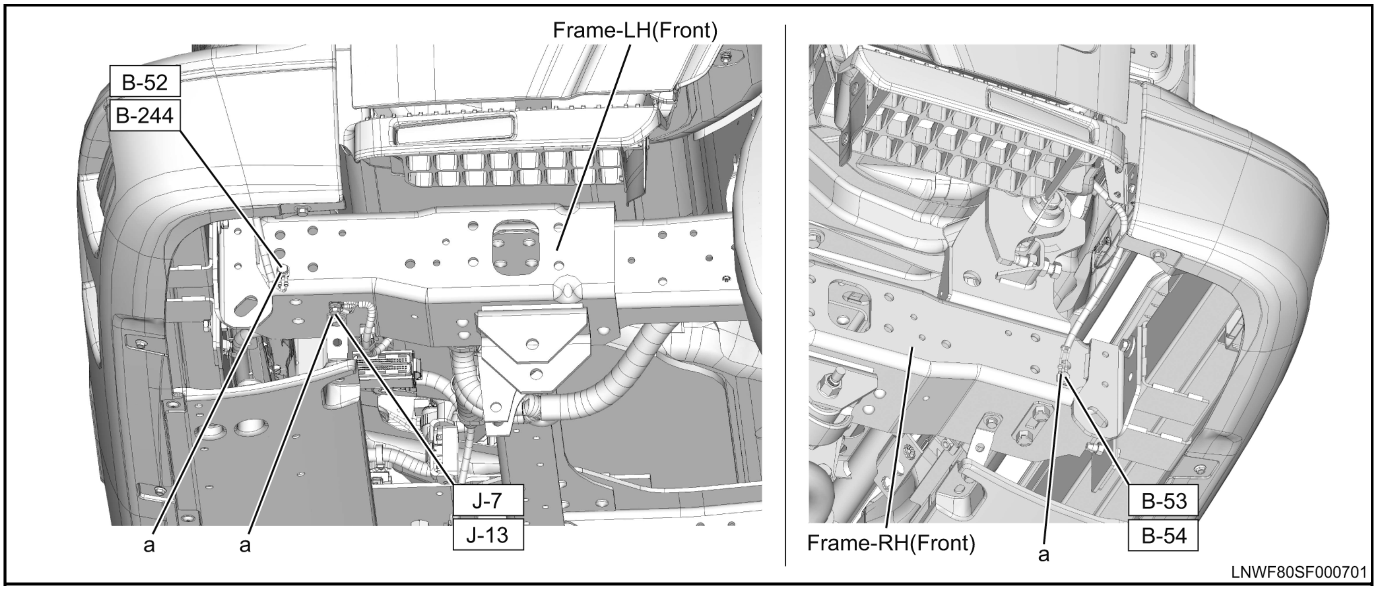
Ground Views


B-56
B-60
B-221
Front Door-LH
a
B-51
B-55
B-59
b
Front Door-RH
LNWE80SF000601

4496012

Legend

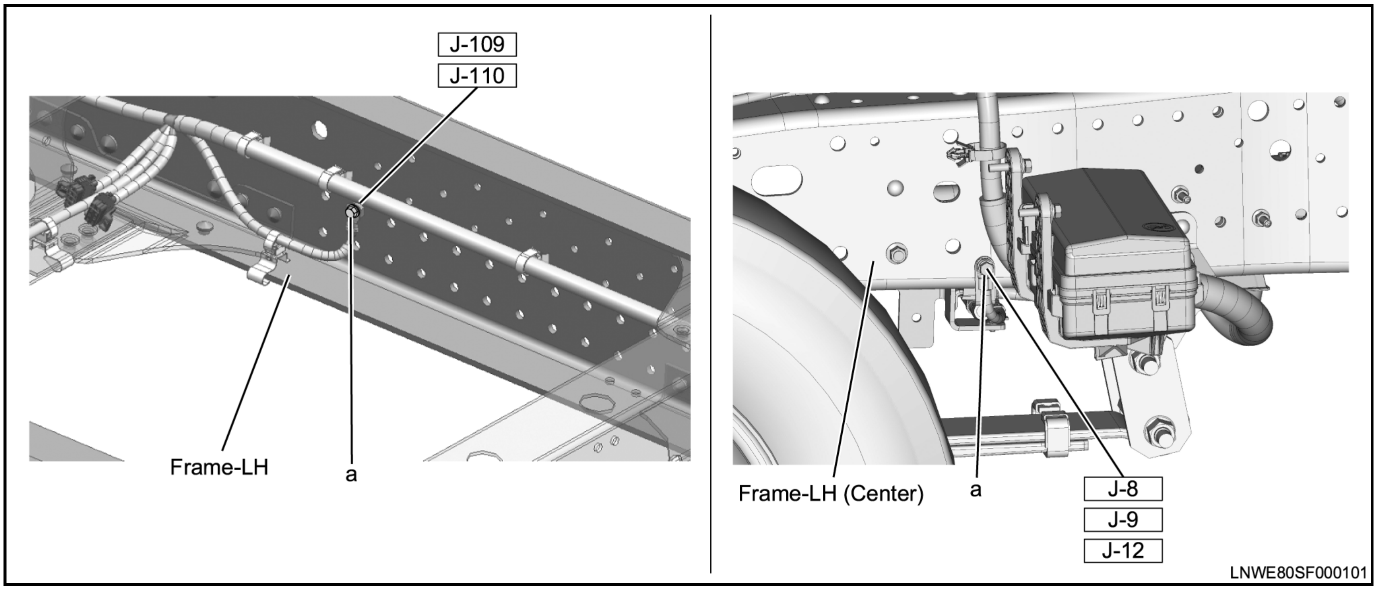
(a)	20 N•m (15 lb·ft)
(b)	8 N•m (71 lb·in)


Frame-LH(Front)
B-52
B-244
J-7
J-13
a
a
Frame-RH(Front)
a
B-53
B-54
LNWF80SF000701

4499663

Legend

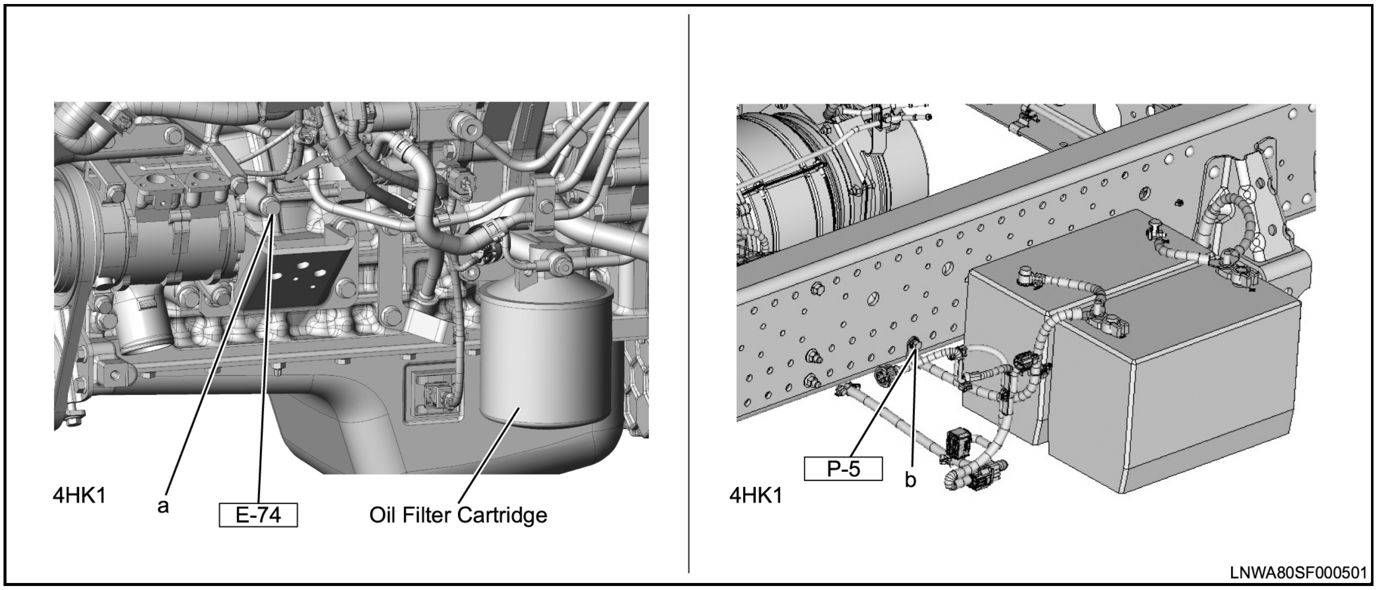
(a)	26 N•m (19 lb·ft)


J-109
J-110
Frame-LH
a
Frame-LH (Center)
a
J-8
J-9
J-12
LNWE80SF000101

4499670

Legend

(a) 26 N•m (19 lb·ft)


4HK1
a
E-74
Oil Filter Cartridge
4HK1
P-5
b
LNWA80SF000501

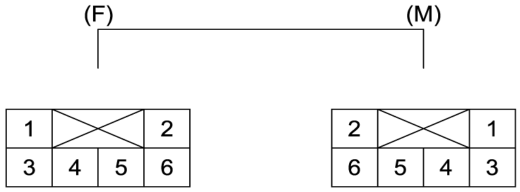
4499673

Legend

(a) 48 N•m (25 lb·ft)	(b) 26 N•m (19 lb·ft)

Visual Identification

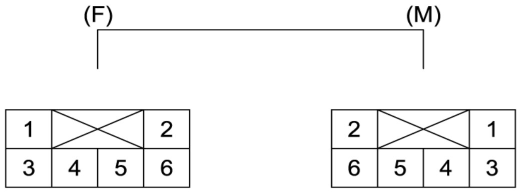
Inline Harness Connector End Views



LNW78DSH000201
4497101

Connector No.	H-31			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRY	J/C 10P BASE3 B-507(7)	BLK	Side Turn Light(LH)
2	GRN/BLK	Sub Junction Block 1 B-132(14)	GRN/BLK	Side Turn Light(LH)
3	GRN/RED	Sub Junction Block 1 B-132(1)	GRN/RED	Side Marker Light(LH)
4	ORN	Audio	ORN	Speaker(LH)
5	GRN	Combination Switch	GRN/BLK	Front Cornering Light(LH)
6	BLK	Audio	BLK	Speaker(LH)

H-32

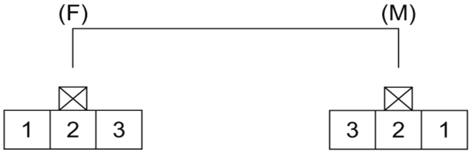


LNW78DSH000201

4497104

Connector No.	H-32			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRY	J/C 10P BASE2 B-506(7)	BLK	Side Turn Light(RH)
2	GRN/WHT	Sub Junction Block 1 B-132(11)	GRN/WHT	Side Turn Light(RH)
3	GRN/RED	Sub Junction Block 1 B-131(6)	GRN/RED	Side Marker Light(RH)
4	GRY	Audio	GRY	Speaker(RH)
5	GRN/WHT	Combination Switch	GRN/WHT	Front Cornering Light(RH)
6	GRN	Audio	GRN	Speaker(RH)

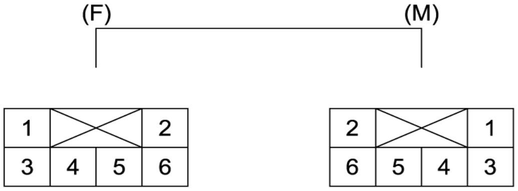
H-33



LNWF80SH000401

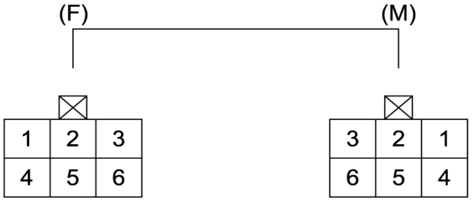
4497106

Connector No.	H-33			
Connector Color	Black			
Test Adapter No.	(M) J-35616-44		(F) J-35616-45	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	VIO	Cab Junction Block1 B-20(7)	GRY	Door Switch RH
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used



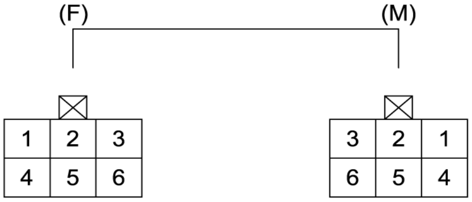
LNW78DSH000201
4497109

Connector No.	**H-45**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	Not Used	—	Not Used
2	BRN	J/C 10P BASE1 B-505 (6)	RED	Dome Light
3	GRY	Cab Junction Block1 B-22 (6)	GRY/BLU	Dome Light
4	GRN/RED	Cab Junction Block1 B-22 (9)	GRN/RED	Joint Connector 7
5	GRY	Cab Junction Block1 B-22 (9)	—	Not Used
6	GRY	J/C 10P BASE2 B-506 (8)	BLK	Joint Connector 5
Male (C-Cab)			Female (C-Cab)	
1	BRN	J/C 10P BASE1 B-505(4)	RED	Rear Dome Light
2	BRN	J/C 10P BASE1 B-505(6)	RED	Dome Light
3	GRY	Cab Junction Block1 B-22 (6)	GRY/BLU	Dome Light
4	GRN/RED	Cab Junction Block1 B-22 (9)	GRN/RED	Joint Connector 7
5	GRY	Cab Junction Block1 B-21 (9)	GRY/BLU	Rear Dome Light
6	GRY	J/C 10P BASE2 B-506 (15)	BLK	Joint Connector 5



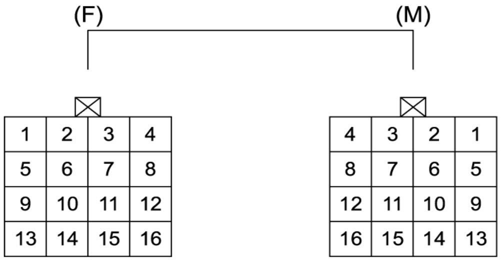
LNW78DSH000301
4506948

Connector No.	H-49			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	RED/WHT	H-93(10)	RED/WHT	Rear Power Window Switch(LH)
2	GRN/BLK	H-93(9)	GRN/BLK	Rear Power Window Switch(LH)
3	GRN/YEL	H-93(8)	GRN/YEL	Rear Power Window Switch(LH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-93(6)	GRN/YEL	Rear Door Lock Motor(LH)
6	GRN/RED	H-93(5)	GRN/RED	Rear Door Lock Motor(LH)



LNW78DSH000301
4506948

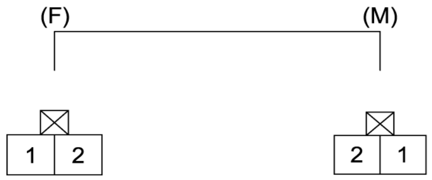
Connector No.	H-51			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	RED/WHT	H-86(10)	RED/WHT	Rear Power Window Switch (RH)
2	GRN	H-86(9)	GRN/BLK	Rear Power Window Switch (RH)
3	BLU/YEL	H-86(8)	GRN/YEL	Rear Power Window Switch (RH)
4	—	Not Used	—	Not Used
5	GRN/YEL	H-86(6)	GRN/YEL	Rear Door Lock Motor (RH)
6	GRN/RED	H-86(5)	GRN/RED	Rear Door Lock Motor (RH)



LNW78DSH000401
4497114

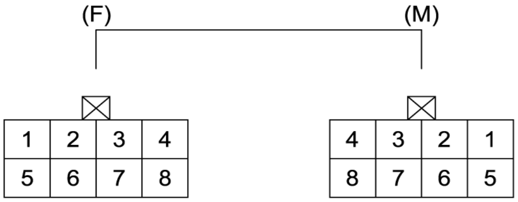
Connector No.	H-52			
Connector Color	Black			
Test Adapter No.	(M) J-35616-12		(F) J-35616-13	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU/YEL	Engine Oil Pressure Switch	BLU/YEL	H-81 (23)
2	GRN/WHT	Oil Level Switch	GRN/WHT	H-80 (7)
3	BRN/YEL	A/C Compressor	BRN/YEL	Triple Pressure Switch
			BRN/YEL	Diode 1
			BRN/YEL	ECM
4	GRN/BLK	Glow Plug Control Module	GRN/BLK	W/S-2
		Fuel Cut Solenoid Valve		
5	BLU/WHT	VNT Control Module	BLU/WHT	ECM
		H-52 (7)		
6	BLU	VNT Control Module	BLU	ECM
		H-52 (8)		
7	BLU/WHT	Glow Plug Control Module	BLU/WHT	H-90 (8)
		H-52 (5)		EHCU
		VNT Control Module		

Connector No.	**H-52**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-12**		**(F) J-35616-13**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
8	BLU	Glow Plug Control Module	BLU	H-90 (7)
		H-52 (6)		EHCU
	BLU/WHT	VNT Control Module		
9	BRN	Turbocharger Outlet Air Temperature Sensor	ORN	ECM
10	PNK	Turbocharger Outlet Air Temperature Sensor	BLU/ORN	ECM
11	YEL/RED	ECM	YEL/RED	Intake Airflow (IAF) Valve
12	VIO/WHT	ECM	YEL/RED	Intake Airflow (IAF) Valve
13	GRN/BLK	VNT Control Module	GRN/BLK	W/S-2
14	BLU/BLK	ECM	YEL/RED	Intake Airflow (IAF) Valve
15	GRY/BLK	Low Water Level Switch	GRY/BLK	H-90 (19)
16	WHT/BLU	Generator	WHT/BLU	H-80 (12)



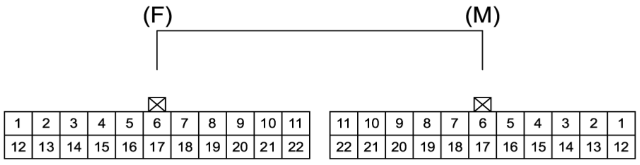
LNW78DSH000501
4497116

Connector No.	**H-53**			
Connector Color	**Gray**			
Test Adapter No.	**(M) J-35616-21**		**(F) J-35616-22**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU/BLK	SBF GLOW (60A)	WHT/BLK	Glow Plug Control Module
2	BLK/WHT	Starter Relay	BLK/WHT	Starter

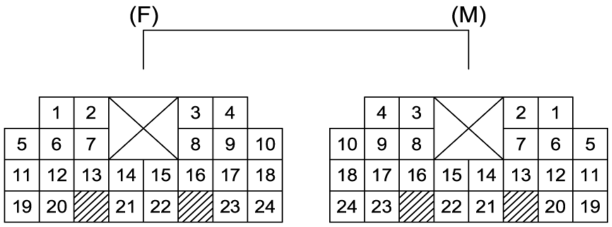


LNW78DSH000601
4497120

Connector No.	**H-66**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRN/BLK	Rear Combination Light (LH)	GRN/BLK	H-101 (1)
2	GRN	Rear Combination Light (RH) Rear Combination Light (LH)	GRN	H-101(3)
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	GRN/RED	License Plate Light Rear Combination Light (LH) Rear Combination Light (RH)	GRN/RED	H-101 (5)
6	RED/BLU	Rear Combination Light (LH) Rear Combination Light (RH)	RED/BLU	H-101 (28) Back Buzzer
7	BLK	Rear Combination Light (RH) Rear Combination Light (LH) License Plate Light	BLK	W/S-6
8	GRN/WHT	Rear Combination Light (RH)	GRN/WHT	H-101 (2)



Connector No.	**H-80**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	VIO	Sub Junction Block 1 B-135 (7)	BLK/ORN	ECM
2	GRY	Sub Junction Block 1 B-135 (7)	BLK	Vehicle Speed Sensor
3	LT GRN	Combination Switch	PNK/BLU	ECM
4	—	Not Used	—	Not Used
5	—	Not Used	—	Not Used
6	—	Not Used	—	Not Used
7	BLU	IP Cluster	GRN/WHT	H-52 (2)
8	VIO	IP Cluster	ORN/BLU	ECM
9	LT BLU	Cruise Main Switch	GRY/BLU	ECM
10	YEL	Wiper Exhaust Brake Switch	LT GRN/RED	ECM
11	BLU	IP Cluster	YEL/BLK	ECM
12	LT BLU	Sub Junction Block 1 B-131 (10)	WHT/BLU	H-52 (16)
13	—	Not Used	—	Not Used
14	—	Not Used	—	Not Used
15	BRN	Combination Switch	GRY	ECM
16	GRN	IP Cluster	BLK/ORN	Air Cleaner Switch
17	YEL	P/N Start Relay	BLK/RED	Inhibitor Switch
18	—	Not Used	—	Not Used
19	BRN	DPF Regeneration Switch	BLU/WHT	ECM
20	YEL	J/C 10P BASE1 B-505 (3)	YEL	Rear Dome Light Relay
21	RED	Rear Dome Light Switch 1	RED	Fuse Rear Dome Light (15A)
22	LT GRN	Stoplight Switch	RED/WHT	ECM

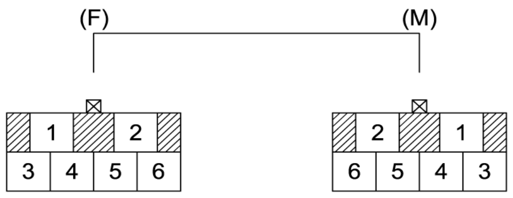


LNW78DSH004201
4497126

Connector No.	H-81			
Connector Color	Green			
Test Adapter No.	(M) J-35616-12/ J-35616-40		(F) J-35616-13/ J-35616-41	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	LT BLU	Cab Junction Block1 B-18 (9)	RED/BLK	Horn (RH), (LH)
2	—	Not Used	—	Not Used
3	VIO	Sub Junction Block 1 B-135 (8)	GRN/WHT	H-101 (2)/H-172 (4)
4	LT GRN	Cab Junction Block 1 B-22 (15)	BLK/WHT	Starter Relay
5	VIO	Sub Junction Block 1 B-136 (5)	GRN/BLK	H-101 (1)/H-172 (3)
6	RED/BLU	H-84 (12)	RED/BLU	Linear Solenoid 2
7	RED/YEL	H-84 (7)	RED/YEL	Linear Solenoid 2
8	RED/WHT	H-84 (10)	RED/WHT	Linear Solenoid 4
9	RED/BLK	H-84 (3)	RED/BLK	Linear Solenoid 4
10	BRN	IP Cluster	LT GRN/WHT	H-173 (9)
			LT GRN/WHT	H-101 (6)
11	—	Not Used	—	Not Used
12	RED	H-84 (11)	RED	Linear Solenoid 3
13	RED/GRN	H-84 (6)	RED/GRN	Linear Solenoid 3
14	WHT/RED	W/S-25	WHT/RED	SBF Headlight (30A)
15	BLK/RED	Cab Junction Block 1 B-25 (1)	BLK/RED	SBF Starter Switch 1 (30A)
16	BEI	IP Cluster	BRN/WHT	Fuel Sedimenter Switch
17	LT BLU	Sub Junction Block 1 B-136 (12)	GRN	H-101 (3)
				ECM
				H-172 (1)
				EHCU
18	—	Not Used	—	Not Used
19	—	Not Used	—	Not Used
20	YEL	Sub Junction Block 1 B-135 (10)	RED/BLK	H-101 (31)
				Inhibitor Switch
21	BLK/YEL	W/S-10	BLK/YEL	SBF Junction Block (50A)

Connector No.	H-81			
Connector Color	Green			
Test Adapter No.	(M) J-35616-12/ J-35616-40		(F) J-35616-13/ J-35616-41	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
22	WHT/BLK	Cab Junction Block 1 B-26 (2)	WHT/BLK	SBF Wiper (50A)
23	LT GRN	IP Cluster	BLU/YEL	H-52 (1)
24	—	Not Used	—	Not Used

H-82



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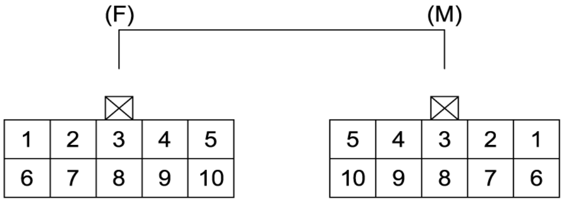
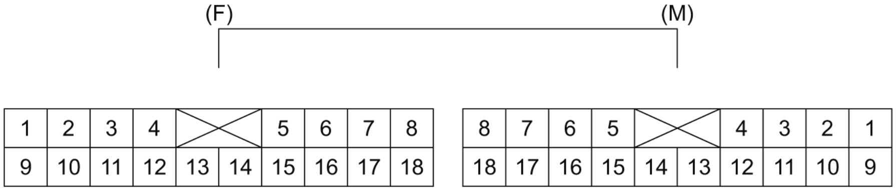
4497161

Connector No.	H-82			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-12/ J-35616-44		(F) J-35616-13/ J-35616-45	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	WHT/BLK	Blower Relay	WHT/BLK	SBF HVAC(40A)
2	RED/BLK	Power ACC Relay	RED/BLK	SBF POWER ACC(50A)
3	—	Not Used	—	Not Used
4	BRN	Sub Junction Block 1 B-132(2)	GRN/RED	Marker Light Relay
5	BLK/YEL	W/S-8	BLK/YEL	SBF Starter Switch 2 (40A)
6	BLK/YEL	W/S-8	BLK/YEL	SBF Starter Switch 2 (40A)



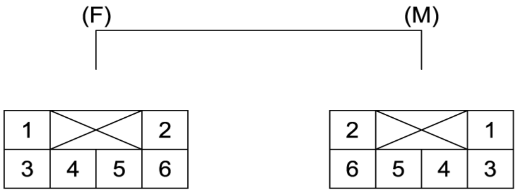
LNW78DSH000701
4497182

Connector No.	**H-83**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRY	J/C-101	BLK	ECM
2	WHT	Accelerator Pedal Position Sensor	WHT	ECM
3	—	Not Used	—	Not Used
4	BLU/WHT	Accelerator Pedal Position Sensor	BLU/WHT	ECM
5	BLU	Accelerator Pedal Position Sensor	BLU	ECM
6	GRY	J/C-101	* /S	ECM
7	RED	Accelerator Pedal Position Sensor	RED	ECM
8	—	Not Used	—	Not Used
9	BLU	J/C-100	BLU/RED	ECM
10	BLU	J/C-100	* /S	Shield
* /S = Shild Line				



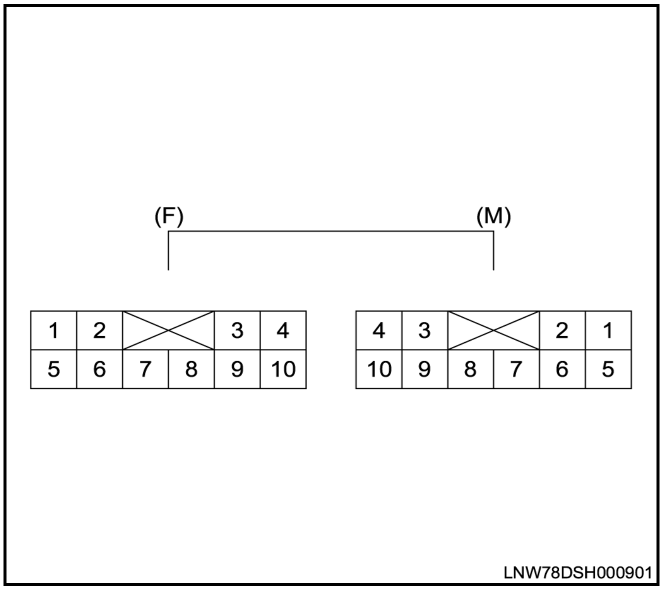
LNWF80SF000301
4497185

Connector No.	**H-84**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU	IP Cluster	BLU	CAN1 JOINT Mimamori 1
2	YEL/BLK	IP Cluster	YEL/BLK	TCM
3	RED/BLK	H-81 (9)	RED/BLK	TCM
4	WHT/BLK	H-85 (4)	WHT/BLK	DRL Control Unit
5	RED/BLU	DRL Relay B-21 (5)	RED/BLU	DRL Control Unit
6	RED/GRN	H-81 (13)	RED/GRN	TCM
7	RED/YEL	H-81 (7)	RED/YEL	TCM
8	VIO	IP Cluster	VIO	TCM
9	BLU/WHT	IP Cluster	BLU/WHT	CAN1 JOINT Mimamori 2
10	RED/WHT	H-81 (8)	RED/WHT	TCM
11	RED	H-81 (12)	RED	TCM
12	RED/BLU	H-81 (6)	RED/BLU	TCM
13	BLU/WHT	Sub Junction Block 1 B-132 (16)	BLU/WHT	Diode Door Lock
14	PNK/BLU	Key Remained Switch	PNK/BLU	Keyless Entry Control Unit
15	YEL/GRN	IP Cluster	YEL/GRN	DRL Control Unit
16	RED	IP Cluster	RED	Cab Junction Block 1 B-19 (8)
17	LT GRN	Cornering Light Relay	WHT/RED	Cab Junction Block1 B-20 (3)
18	WHT/BLU	IP Cluster	WHT/BLU	TCM



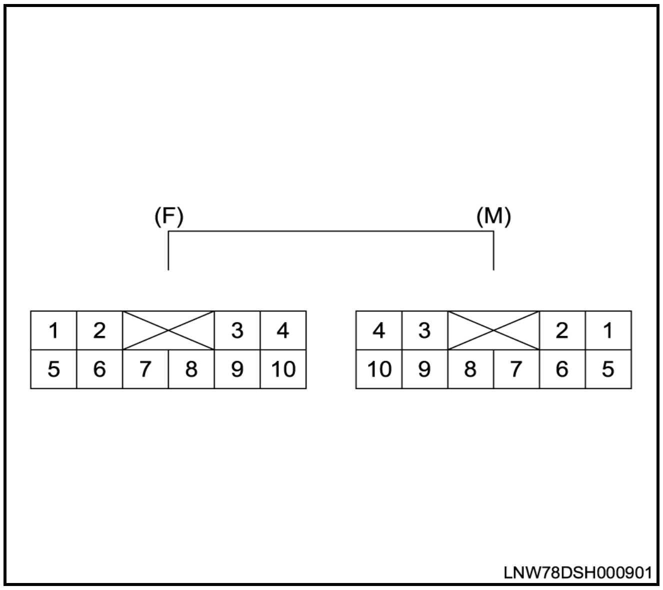
LNW78DSH000201
4497189

Connector No.	**H-85**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	WHT/GRN	Seat Belt Switch	WHT/GRN	(IP) Cluster
2	GRY	Door Switch (LH)	GRY	Cab Junction Block1 B-17 (2)
3	—	Not Used	—	Not Used
4	WHT/BLK	Parking Brake Switch	WHT/BLK	H-84 (4)
5	VIO	Shift Lever	VIO	Key Lock Solenoid
6	—	Not Used	RED/YEL	W/S-19
Male (C-Cab)			Female (C-Cab)	
1	WHT/GRN	Seat Belt Switch	WHT/GRN	(IP) Cluster
2	GRY	JC29	GRY	Cab Junction Block1 B-17 (2)
3	—	Not Used	—	Not Used
4	WHT/BLK	Parking Brake Switch	WHT/BLK	H-84 (4)
5	VIO	Shift Lever	VIO	Key Lock Solenoid
6	RED/YEL	Rear Heater	LT GRN	W/S-19



4711325

Connector No.	**H-86**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	VIO	Cab Junction Block1 B-20 (7)	GRY	Door Switch (RH)
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	VIO	J/C 10P ADD1 B-508 (4)	GRN/RED	H-51 (6)
6	LT BLU	J/C 10P ADD1 B-508 (9)	GRN/YEL	H-51 (5)
7	—	Not Used	—	Not Used
8	BLU/YEL	Rear Power Window Switch (RH)	BLU/YEL	H-51 (3)
9	GRN	Rear Power Window Switch (RH)	GRN	H-51 (2)
10	RED/WHT	W/S-12	RED/WHT	H-51 (1)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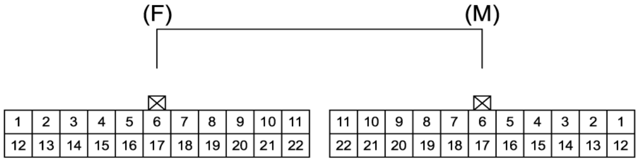
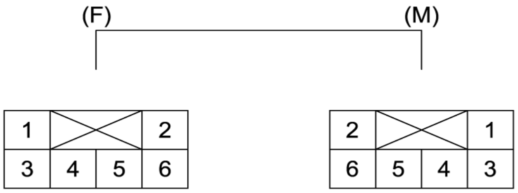
4711699

Connector No.	H-87			
Connector Color	Green			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLK	Earth Joint 10P1	BLK	Mirror Heater (RH)
2	VIO	J/C 10P BASE ADD1 B-508(3)	GRN/RED	Front Door Lock Motor (RH)
3	BLK/RED	Sub Junction Block 1 B-133(14)	BLK/RED	Front Cornering Light (RH)
4	BLU/WHT	H-92(16)	BLU/WHT	Front Power Window Switch (RH)
5	GRY	W/S-13	BLK	Side Marker Light(RH)
6	BRN/YEL	Cab Junction Block 1 B-15(5)	BRN/YEL	Front Power Window Switch (RH)
7	LT BLU	J/C 10P BASE ADD1 B-508(8)	GRN/YEL	Front Door Lock Motor (RH)
8	BLU/RED	H-92(4)	BLU/RED	Front Power Window Switch (RH)
9	RED/YEL	Mirror Heater Switch	RED/YEL	Mirror Heater (RH)
10	—	Not Used	—	Not Used


(F)
(M)
1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22
11 10 9 8 7 6 5 4 3 2 1
22 21 20 19 18 17 16 15 14 13 12

LNW78DSH004101
4497198

Connector No.	**H-88**			
Connector Color	**Blue**			
Test Adapter No.	**(M) J-35616-16**		**(F) J-35616-17**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BRN	TCM	BLK/GRN	H-177 (1)
2	LT BLU	TCM	BLK/YEL	Transmission Fluid Temperature (TFT) Sensor Valve Body (J-119)
3	YEL	TCM	WHT	Transmission Fluid Temperature (TFT) Sensor Valve Body (J-119)
4	BLU	TCM	WHT/RED	Inhibitor Switch (J-122)
5	VIO	TCM	RED/BLU	Inhibitor Switch (J-122) H-101(28)
6	—	Not Used	—	Not Used
7	LT BLU	TCM	BLU/YEL	Inhibitor Switch (J-122)
8	LT GRN	TCM	BLU/RED	Inhibitor Switch (J-122)
9	BRN	TCM	BLU/WHT	Inhibitor Switch (J-122)
10	BRN	TCM	YEL/RED	Linear Solenoid1 (SL1) (J-119)
11	YEL	TCM	YEL/BLK	Linear Solenoid1 (SL1) (J-119)
12	—	Not Used	—	Not Used
13	VIO	TCM	ORN	Transmission Fluid Pressure (TFP) Switch (J-120)
14	BRN	TCM	RED/YEL	ECM
15	VIO	TCM	GRY	Transmission Fluid Pressure (TFP) Switch (J-120)
16	LT GRN	TCM	VIO	Transmission Fluid Pressure (TFP) Switch (J-120)
17	BLU	TCM	WHT	Transmission Fluid Pressure (TFP) Switch (J-119)
18	LT BLU	TCM	YEL	Transmission Fluid Pressure (TFP) Switch (J-119)
19	BLU	TCM	RED	Transmission Fluid Pressure (TFP) Switch (J-120)
20	BRN	TCM	BLU/BLK	Transmission Fluid Pressure (TFP) Switch (J-119)
21	YEL	TCM	WHT/BLU	Transmission Fluid Pressure (TFP) Switch (J-119)
22	BLU	TCM	BLU	Inhibitor Switch (J-122)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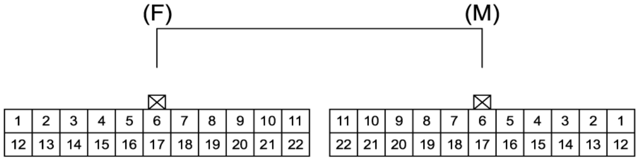
4497201

Connector No.	H-89			
Connector Color	Orange			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	BLU	TCM	WHT/GRN	Shift Solenoid
2	VIO	TCM	YEL/BRN	Shift Solenoid
3	LT BLU	TCM	YEL	Shift Solenoid
4	LT GRN	TCM	RED/YEL	Shift Solenoid
5	BLU	Sub Junction Block1 B-133 (1)	GRN/BLK	Fuse Tail Main (20A)
6	LT BLU	Sub Junction Block1 B-138 (18)	GRN/BLK	Fuse Tail Main (20A)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(M)
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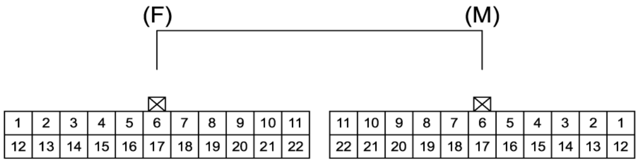
12 13 14 15 16 17 18 19 20 21 22
11 10 9 8 7 6 5 4 3 2 1
22 21 20 19 18 17 16 15 14 13 12

LNW78DSH004101
4497206

Connector No.	H-90			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	Not Used	—	Not Used
2	—	Not Used	—	Not Used
3	—	Not Used	—	Not Used
4	—	Not Used	—	Not Used
5	VIO	Sub Junction Block1 B-133 (7)	BLK/BLU	ECM
6	—	Not Used	—	Not Used
7	BLU	CAN1 JOINT FMS-L	BLU	H-52 (8)/EHCU
8	BLU/WHT	CAN1 JOINT FMS-H	BLU/WHT	H-52 (7)/EHCU
9	—	Not Used	—	Not Used
10	—	Not Used	—	Not Used
11	BRN	Electronic Thermostat	GRY	Magnetic Clutch Relay
12	—	Not Used	—	Not Used
13	BRN	J/C 10P ADD4 B-520 (7)	PNK	ECM/H-101 (30)
14	—	Not Used	—	Not Used
15	—	Not Used	—	Not Used
16	—	Not Used	—	Not Used
17	VIO	Rear Body Switch	GRY/PNK	Front Manufacture Connector
18	LT BLU	Low Coolant Level Controller	GRY/BLU	ECM
19	BRN	Low Coolant Level Controller	GRY/BLK	H-52 (15)
20	BLU	PTO Engine Speed Control Switch	BLU/ORN	H-101 (4) Diode 2
21	BLU	PTO Engine Speed Control Switch	BLU/YEL	H-101 (7) Diode 3
22	VIO	J/C 10P ADD3 B-519 (4)	BLK/RED	Magnetic Clutch Relay



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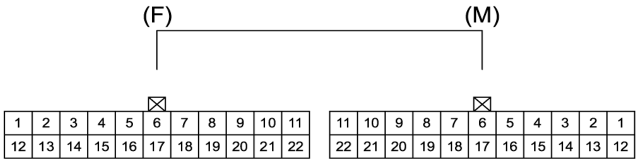
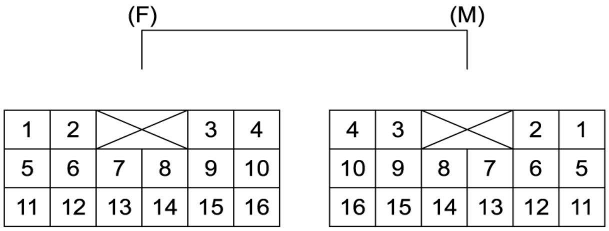
4497206

Connector No.	**H-91**			
Connector Color	**Gray**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	WHT	Sub Junction Block 1 B-137 (4)	BLK/YEL	EHCU
2	GRN/WHT	CAN2 JOINT Check-H	GRN/WHT	H-174 (15)
				Diesel Exhaust Fluid (DEF) Control Module
3	—	Not Used	—	Not Used
4	BRN	TCM	BLK/RED	Input Shaft Speed Sensor
5	YEL	TCM	WHT/BLK	Output Shaft Speed Sensor
6	—	Not Used	—	Not Used
7	LT BLU	Sub Junction Block 1 B-138 (5)	BLK/WHT	Brake Fluid Level Switch (HBB) (S-Cab)
				H-96 (3) (C-Cab)
				H-91(9) (without HBB)
8	YEL	J/C 10P ADD4 B-520 (8)	RED/YEL	Brake Fluid Level Switch (HBB)
				H-96 (1) (C-Cab)
9	BLK/BLU	DRL Control Unit	BLK/BLU	Brake Fluid Level Switch (HBB)
				H-96 (4) (C-Cab)
				H-91 (7) (without HBB)
10	—	Not Used	—	Not Used
11	BLU	Sub Junction Block1 B-137 (7)	GRN/YEL	Vehicle Speed Sensor
12	WHT	Sub Junction Block 1 B-133 (16)	LT GRN/BLU	EHCU
13	GRN	CAN2 JOINT Check-L	GRN	H-174 (16)
				Diesel Exhaust Fluid (DEF) Control Module
14	—	Not Used	—	Not Used
15	LT BLU	J/C-50	WHT/RED	Input Shaft Speed Sensor
16	LT BLU	J/C-50	WHT/RED	Output Shaft Speed Sensor
17	—	Not Used	—	Not Used
18	—	Not Used	—	Not Used
19	YEL	TCM	BLU/BLK	ECM
20	—	Not Used	—	Not Used
21	LT BLU	Cab Junction Block 1 B-20 (4)	BLK/ORN	EHCU
				Diesel Exhaust Fluid (DEF) Control Module
22	—	Not Used	—	Not Used



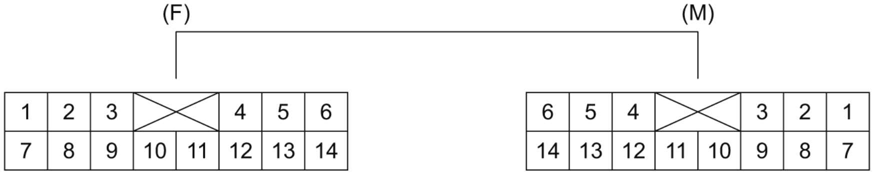
LNW78DSH004101
4497206

Connector No.	**H-91**			
Connector Color	**Gray**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	WHT	Sub Junction Block 1 B-137 (4)	BLK/YEL	EHCU
2	GRN/WHT	CAN2 JOINT Check-H	GRN/WHT	H-174 (15)
3	—	Not Used	—	Not Used
4	BRN	TCM	BLK/RED	Input Shaft Speed Sensor
5	YEL	TCM	WHT/BLK	Output Shaft Speed Sensor
6	—	Not Used	—	Not Used
7	LT BLU	Sub Junction Block 1 B-138 (5)	BLK/WHT	Brake Fluid Level Switch (HBB)
			BLK/WHT	H-96 (3) (C-Cab)
8	YEL	J/C 10P ADD4 B-520 (8)	RED/YEL	Brake Fluid Level Switch (HBB)
			RED/YEL	H-96 (1) (C-Cab)
9	BLK/BLU	DRL Control Unit	BLK/BLU	Brake Fluid Level Switch (HBB)
			BLK/BLU	H-96 (4) (C-Cab)
10	—	Not Used	—	Not Used
11	BLU	Sub Junction Block1 B-137 (7)	GRN/YEL	Vehicle Speed Sensor
12	WHT	Sub Junction Block 1 B-133 (16)	LT GRN/BLU	EHCU
13	GRN	CAN2 JOINT Check-L	GRN	H-174 (16)
14	—	Not Used	—	Not Used
15	LT BLU	J/C-50	WHT/RED	Input Shaft Speed Sensor
16	LT BLU	J/C-50	WHT/RED	Output Shaft Speed Sensor
17	—	Not Used	—	Not Used
18	—	Not Used	—	Not Used
19	YEL	TCM	BLU/BLK	ECM
20	—	Not Used	—	Not Used
21	LT BLU	Cab Junction Block 1 B-20 (4)	BLK/ORN	EHCU
22	—	Not Used	—	Not Used



LNW78DSH001001
4497208

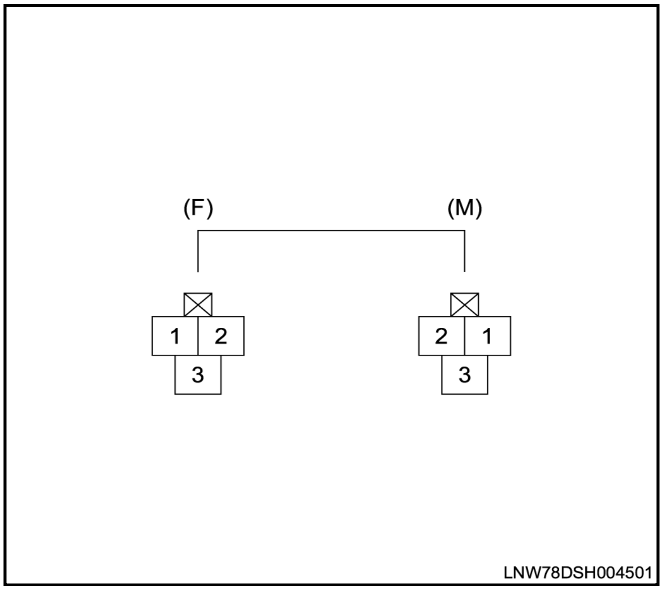
Connector No.	H-92			
Connector Color	Black			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	LT BLU	Sub Junction Block 1 B-134 (14)	GRN/BLK	Front Door Lock Motor (LH)
2	LT GRN	Sub Junction Block 1 B-134 (17)	BLK/RED	Front Cornering Light (LH)
3	VIO	Keyless Entry Control Unit	RED/GRN	Front Door Lock Motor (LH)
4	BLU/RED	H-87 (8)	BLU/RED	Front Power Window Switch (LH)
5	VIO	J/C 10P ADD1 B-508(2)	GRN/RED	Front Door Lock Motor (LH)
6	—	Not Used	—	Not Used
7	BRN/YEL	Cab Junction Block 1 B-23 (2)	BRN/YEL	Front Power Window Switch (LH)
8	LT GRN	J/C 10P ADD3 B-519 (10)	RED/YEL	Mirror Heater (LH)
9	GRY	Earth Joint 10P2	BLK	Mirror Heater (LH)
10	GRY	W/S-11	BLK	Front Door Lock Motor (LH)
11	BLK	Earth Joint 10P2	BLK	Front Power Window Switch (LH)
12	—	Not Used	—	Not Used
13	LT BLU	J/C 10P ADD1 B-508 (7)	GRN/YEL	Front Door Lock Motor (LH)
14	—	Not Used	—	Not Used
15	GRY	W/S-16	BLK	Side Marker Light (LH)
16	BLU/WHT	H-87 (4)	BLU/WHT	Front Power Window Switch (LH)



4711716

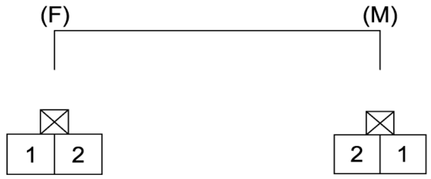
Connector No.	**H-93**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	LT GRN/RED	Overdrive Switch	LT GRN/RED	Sub Junction Block 1 B-138 (9)
2	WHT/BLU	Overdrive Switch	WHT/BLU	TCM
3	LT GRN/BLK	Overdrive Switch	LT GRN/BLK	Sub Junction Block 1 B-134 (15)
4	BLK	J/C-1	GRY	W/S-11
5	—	Not Used	VIO	Not Used
6	—	Not Used	LT BLU	Not Used
7	—	Not Used	—	Not Used
8	—	Not Used	—	Not Used
9	—	Not Used	—	Not Used
10	—	Not Used	—	Not Used
11	LT GRN	Shift Lever	LT GRN	W/S-22
12	GRN/YEL	Shift Lever	GRN/YEL	Sub Junction Block 1 B-138 (11)
13	GRN	Shift Lever	GRN	J/C 10P ADD 4 B-520 (3)
14	—	Not Used	—	Not Used
Male (C-Cab)			Female (C-Cab)	
1	LT GRN/RED	Overdrive Switch	LT GRN/RED	Sub Junction Block1 B-138 (9)
2	WHT/BLU	Overdrive Switch	WHT/BLU	TCM
3	LT GRN/BLK	Overdrive Switch	LT GRN/ BLK	Sub Junction Block1 B-134 (15)
4	BLK	J/C-1	GRY	W/S-11
5	GRN/RED	H-49 (6)	VIO	J/C 10P ADD1 B-508 (5)
6	GRN/YEL	H-49 (5)	LT BLU	J/C 10P ADD1 B-508 (10)
7	—	Not Used	—	Not Used
8	GRN/YEL	H-49 (3)	GRN	Rear Power Window Switch (LH)
9	GRN/BLK	H-49 (2)	RED	Rear Power Window Switch (LH)
10	RED/WHT	H-49 (1)	RED/WHT	W/S-12
11	LT GRN	Shift Lever	LT GRN	W/S-22

Connector No.	H-93			
Connector Color	White			
Test Adapter No.	(M) J-35616-4A		(F) J-35616-5	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
12	GRN/YEL	Shift Lever	GRN/YEL	Sub Junction Block 1 B-138 (11)
13	GRN	Shift Lever	GRN	J/C 10P ADD 4 B-520 (3)
14	—	Not Used	—	Not Used



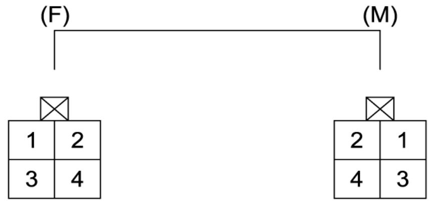
4506966

Connector No.	H-94			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	—	Not Used	—	Not Used
2	YEL/RED	Fuel Tank Unit	LT GRN/WHT	H-173 (9)
3	BLK	Fuel Tank Unit	BLK	H-173 (10)



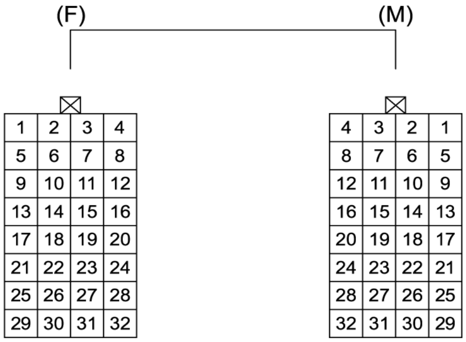
LNW78DSH000501
4497116

Connector No.	H-95			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin No.	Wire Color	Pin Function	Wire Color	Pin Function
1	WHT	H-88 (3)	WHT	Transmission Fluid Temperature (TFT) Sensor - Torque Converter Clutch
2	BLK/GRN	H-88 (1)	BLK/ORN	Transmission Fluid Temperature (TFT) Sensor - Torque Converter Clutch



LNW78DSH001101
4497219

Connector No.	**H-96 (J-106)**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	Not Used	—	Not Used
2	—	Not Used	—	Not Used
3	BLK/WHT	H-91 (7)	BLK/WHT	Short Connector
4	BLK/BLU	H-91 (9)	BLK/WHT	Short Connector
Male (C-Cab)			Female (C-Cab)	
1	RED/YEL	H-91 (8)	RED/YEL	Brake Fluid Level Switch (HBB)
2	BLK	W/S-4	BLK	Brake Fluid Level Switch (HBB)
3	BLK/WHT	H-91 (7)	BLK/WHT	Brake Fluid Level Switch (HBB)
4	BLK/BLU	H-91 (9)	BLK/BLU	Brake Fluid Level Switch (HBB)

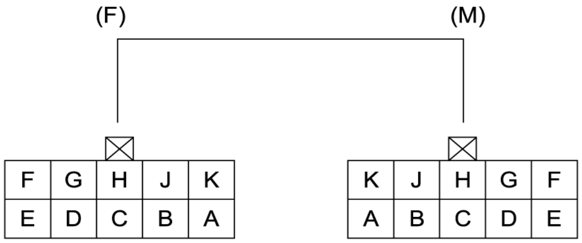

(F)
(M)
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
17 18 19 20
21 22 23 24
25 26 27 28
29 30 31 32
4 3 2 1
8 7 6 5
12 11 10 9
16 15 14 13
20 19 18 17
24 23 22 21
28 27 26 25
32 31 30 29

LNW78DSH001201
4497211

Connector No.	**H-101**			
Connector Color	**Gray/Black**			
Test Adapter No.	**(M) J-35616-2A/ J-35616-64B**		**(F) J-35616-3/ J-35616-65B**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRN/BLK	H-66 (1)	GRN/BLK	H-81 (5)
				Towing Converter
2	GRN/WHT	H-66 (8)	GRN/WHT	H-81 (3)
3	GRN	H-66 (2)	GRN	H-81 (17)
				ECM
				EHCU
4	BLU/ORN	H-105 (H)	BLU/ORN	Diode 2
				H-90 (20)
5	GRN/RED	H-66 (5)	GRN/RED	Marker Light Relay
				Towing Converter
6	LT GRN/WHT	Fuel Tank Unit (In)	LT GRN/WHT	H-81 (10)/H-173 (9)

Connector No.	**H-101**			
Connector Color	**Gray/Black**			
Test Adapter No.	**(M) J-35616-2A/ J-35616-64B**		**(F) J-35616-3/ J-35616-65B**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
7	BLU/YEL	H-105 (D)	BLU/YEL	Diode 3
				H-90 (21)
8	PNK/GRN	H-105 (B)	PNK/GRN	ECM
9	BLK/WHT	H-105 (A)	BLK/WHT	ECM
10	YEL	H-105 (F)	YEL	ECM
11	PNK/BLK	H104 (F)	PNK/BLK	ECM
12	RED/GRN	H104 (B)	RED/GRN	ECM
13	WHT/BLU	H-241 (2)	WHT/BLU	EHCU
14	ORN/BLU	H-241 (1)	ORN/BLU	EHCU
15	WHT	H-242 (2)	WHT	EHCU
16	VIO	H-242 (1)	VIO	EHCU
17	RED/YEL	H-104 (J)	RED/GRN	ECM
18	RED/BLK	H-104 (K)	RED/BLK	ECM
19	BRN	H-104 (E)	BRN	ECM
20	GRY/RED	H-104 (D)	GRY/RED	ECM
21	RED/BLU	H-104 (C)	RED/BLU	ECM
22	—	Not Used	—	Not Used
23	BLU	H-105 (E)	BLU	ECM
24	BLU/RED	H-105 (G)	BLU/RED	ECM
25	BLK	Body Earth 20	BLK	W/S-4
26	BLK	W/S-6	BLK	W/S-4
27	RED	Rear Manufacture Connector	RED	FUSE:RR Dome Light (15A)
28	RED/BLU	H-66 (6)	RED/BLU	H-88 (5)
		Back Buzzer		Inhibitor Switch
29	LT GRN/BLK	Rear Manufacture Connector	LT GRN/BLK	Marker Light Relay
30	PNK	H-105 (C)	PNK	H-90 (13)
				ECM
31	RED/BLK	H-104 (A)	RED/BLK	H-81 (20)
32	WHT/BLK	Rear Manufacture Connector	WHT/BLK	Rear Dome Light Relay

H-104

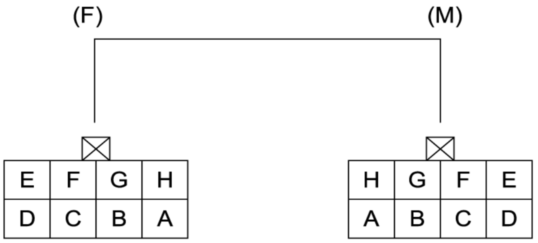


LNW78DSH004601

4497214

Connector No.	H-104			
Connector Color	Black			
Test Adapter No.	(M) J-35616-12		(F) J-35616-13	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
A	—	—	RED/ BLK	H-101(31)
B	—	—	RED/GRN	H-101(12)
C	—	—	RED/BLU	H-101(21)
D	—	—	GRY/RED	H-101(20)
E	—	—	BRN	H-101(19)
F	—	—	PNK/BLK	H-101(11)
G	—	—	—	Not Used
H	—	—	BLK	W/S-6
J	—	—	RED/YEL	H-101(17)
K	—	—	RED/BLK	H-101(18)

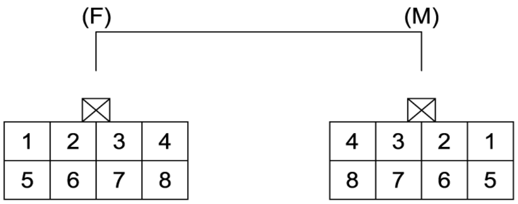
H-105



LNW78DSH004701

4497215

Connector No.	H-105			
Connector Color	Black			
Test Adapter No.	(M) J-35616-12		(F) J-35616-13	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
A	—	—	BLK/WHT	H-101(9)
B	—	—	PNK/GRN	H-101(8)
C	—	—	PNK	H-101(30)
D	—	—	BLU/YEL	H-101(7)
E	—	—	BLU	H-101(23)
F	—	—	YEL	H-101(10)
G	—	—	BLU/RED	H-101(24)
H	—	—	BLU/ORN	H-101(4)



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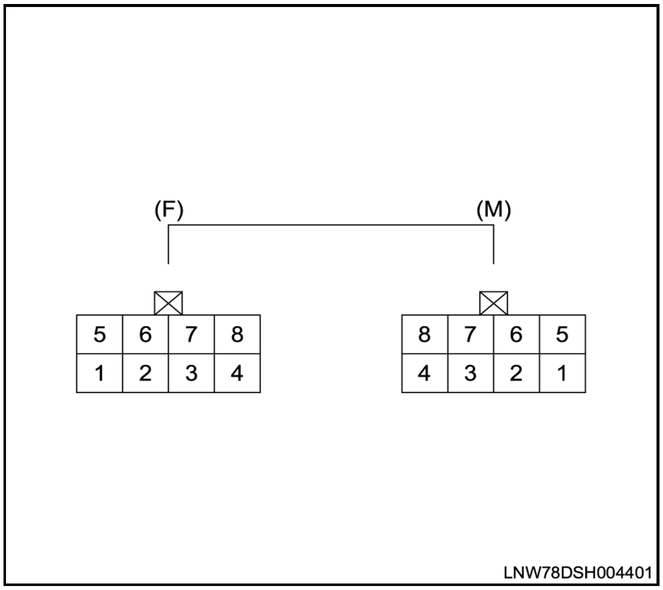
4497217

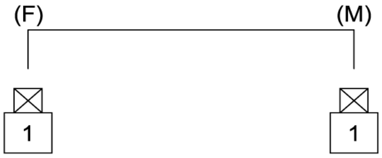
Connector No.	**H-107**			
Connector Color	**Gray**			
Test Adapter No.	**(M) J-35616-12**		**(F) J-35616-13**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	H-108 (1)	WHT/RED	ECM
2	—	H-108 (2)	RED/WHT	ECM
3	—	H-108 (3)	VIO	ECM
4	—	H-108 (4)	LT GRN	ECM
5	—	H-108 (5)	GRN/RED	ECM
6	—	H-108 (6)	GRN/BLK	ECM
7	—	H-108 (7)	BLK/YEL	ECM
8	—	H-108 (8)	WHT/VIO	ECM



4506971

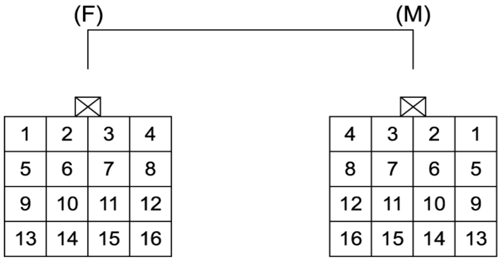
Connector No.	**H-108**			
Connector Color	**Gray**			
Test Adapter No.	**—**		**—**	
	Male		**Female**	
Pin No.	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	H-107 (1)	WHT	Injector Unit (1)
2	—	H-107 (2)	RED	Injector Unit (2)
3	—	H-107 (3)	RED	Injector Unit (3)
4	—	H-107 (4)	WHT	Injector Unit (4)
5	—	H-107 (5)	GRN	Injector Unit (1)
6	—	H-107 (6)	BLU	Injector Unit (2)
7	—	H-107 (7)	YEL	Injector Unit (3)
8	—	H-107 (8)	BLK	Injector Unit (4)

H-170



LNWA8DSH000601
4497220

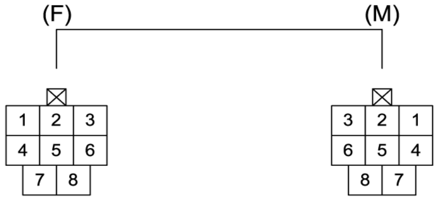
Connector No.	H-170			
Connector Color	Gray			
Test Adapter No.	(M) J-35616-44		(F) J-35616-45	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/ GRN	Relay Box FL-14 ETB	RED/ GRN	Up Filter Install (ETB)



LNW78DSH000401
4497222

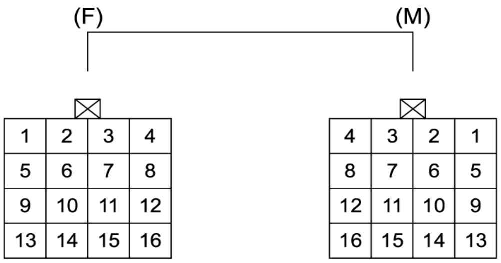
Connector No.	H-171			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
1	RED/BLU	Diesel Exhaust Fluid (DEF) Control Module	RED/BLU	Diesel Exhaust Fluid (DEF) Pump

Connector No.	**H-171**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
2	WHT/BLK	Diesel Exhaust Fluid (DEF) Control Module	WHT/BLK	Diesel Exhaust Fluid (DEF) Pump
3	GRY	Diesel Exhaust Fluid (DEF) Control Module	GRY	Diesel Exhaust Fluid (DEF) Pump
4	RED	Diesel Exhaust Fluid (DEF) Control Module	RED	Diesel Exhaust Fluid (DEF) Pump
5	LT GRN	Diesel Exhaust Fluid (DEF) Control Module	LT GRN	Diesel Exhaust Fluid (DEF) Pump
6	WHT/BLU	Diesel Exhaust Fluid (DEF) Control Module	WHT/BLU	Diesel Exhaust Fluid (DEF) Pump
7	VIO/YEL	Diesel Exhaust Fluid (DEF) Control Module	VIO/YEL	Diesel Exhaust Fluid (DEF) Pump
8	PNK	Diesel Exhaust Fluid (DEF) Control Module	PNK	Diesel Exhaust Fluid (DEF) Pump
9	BLU/WHT	Diesel Exhaust Fluid (DEF) Control Module	BLU/WHT	Diesel Exhaust Fluid (DEF) Tank Level and Temperature Sensor
10	BLU/WHT	H-174 (9)	BLU/WHT	Diesel Exhaust Fluid (DEF) Tank Level and Temperature Sensor
11	BLU/ORN	NOx and Diesel Exhaust Fluid (DEF) Sensor Relay	BLU/WHT	Diesel Exhaust Fluid (DEF) Tank Level and Temperature Sensor
		H-173 (4)		
		H-174 (3)		
12	BLK	Earth Body SCR 2	PNK/WHT	Diesel Exhaust Fluid (DEF) Tank Level and Temperature Sensor
13	BLU	H-174 (10)	BLU	Diesel Exhaust Fluid (DEF) Tank Level and Temperature Sensor
14	BLU	Diesel Exhaust Fluid (DEF) Control Module	BLU	Diesel Exhaust Fluid (DEF) Tank Level and Temperature Sensor
15	RED/WHT	Heater Valve Relay	RED/WHT	Diesel Exhaust Fluid (DEF) Tank Heater Coolant Control Valve
16	BLK	Earth Body SCR 2	BLK	Diesel Exhaust Fluid (DEF) Tank Heater Coolant Control Valve



LNWA8DSH000501
4497846

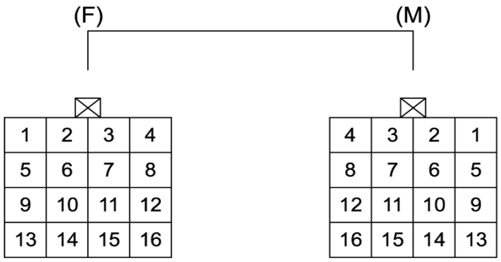
Connector No.	**H-172**			
Connector Color	**Black**			
Test Adapter No.	**(M)J-35616-42**		**(F) J-35616-43**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	GRN	H-81 (17)		
2	GRN/RED	Maker Light Relay		
3	GRN/BLK	H-81 (5)		
4	GRN/WHT	H-81 (3)		
5	BLK	W/S-4		
6	—	Not Used		
7	—	Not Used		
8	RED/WHT	Relay Box Fuse FL-16 Towing Converter		



LNW78DSH000401
4497222

Connector No.	**H-173**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	VIO/WHT	H-175 (1)	VIO/WHT	ECM
2	GRN/YEL	H-175 (2)	GRN/YEL	ECM
3	WHT/ORN	H-175 (3)	WHT/ORN	ECM
4	BLK/ORN	H-175 (4)	BLK/ORN	H-174 (3)
		NOx Sensor 1		NOx and Diesel Exhaust Fluid (DEF) Sensor Relay
				H-171 (11)
5	BLK	H-175 (5)	BLK	H-174 (4)
				Earth Body 10
6	BLU	H-175 (6)	BLU	H-174 (11)
		Resister		

Connector No.	H-173			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
7	BLU/WHT	H-175 (7)	BLU/WHT	H-174 (12)
		Resister		
8	—	Not Used	—	Not Used
9	LT GRN/ WHT	H-94 (2)	LT GRN/ WHT	H-81 (10)
				H-101 (6)
10	BLK	H-94 (3)	BLK	Earth Body 4
11	—	Not Used	—	Not Used
12	—	Not Used	—	Not Used
13	VIO/YEL	Exhaust Gas Temperature Sensor 2	VIO/YEL	ECM
14	RED	Exhaust Gas Temperature Sensor 2	RED	ECM
15	VIO/GRN	Exhaust Gas Temperature Sensor 1	VIO/GRN	ECM
16	YEL/RED	Exhaust Gas Temperature Sensor 1	YEL/RED	ECM



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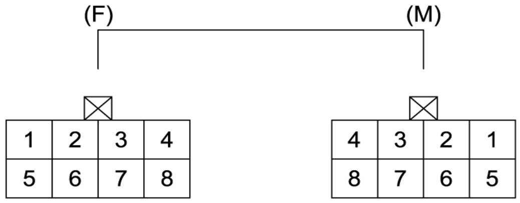
Connector No.	H-174			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
³	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
1	LT GRN/RED	Exhaust Gas Temperature (EGT) Sensor 3	LT GRN/RED	Diesel Exhaust Fluid (DEF) Control Module
2	VIO	Exhaust Gas Temperature (EGT) Sensor 3	VIO	Diesel Exhaust Fluid (DEF) Control Module

Connector No.	**H-174**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
^{3}	**Male**		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
3	BLK/ORN	NOx Sensor 2	BLK/ORN	H-173 (4)
				H-171 (11)
				NOx and Diesel Exhaust Fluid (DEF) Sensor Relay
4	BLK	NOx Sensor 2	BLK	H-173 (5)
5	BLK	Diesel Exhaust Fluid (DEF) Injector	RED	Diesel Exhaust Fluid (DEF) Control Module
6	BLU	Diesel Exhaust Fluid (DEF) Injector	BLU	Diesel Exhaust Fluid (DEF) Control Module
7	BLK/BLU	PM Sensor	BLK/BLU	Fuse 35
8	BLK	PM Sensor	BLK	Earth Body 12
9	BLU/WHT	NOx Sensor 2	BLU/WHT	H-171 (10)
10	BLU	NOx Sensor 2	BLU	H-171 (13)
11	BLU	NOx Sensor 2	BLU	H-173 (6)
12	BLU/WHT	NOx Sensor 2	BLU/WHT	H-173 (7)
13	GRN/WHT	PM Sensor/H-174 (15)	GRN/WHT	H-218 (11)
14	GRN	PM Sensor/H-174 (16)	GRN	H-218 (12)
15	GRN/WHT	PM Sensor/H-174 (13)	GRN/WHT	H-91 (2)
16	GRN	PM Sensor/H-174 (14)	GRN	H-91 (13)



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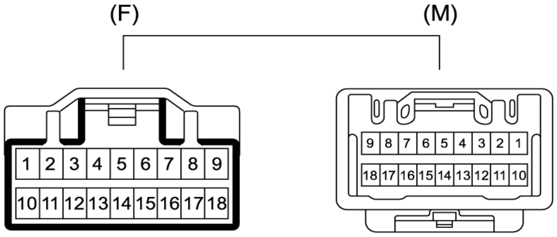
Connector No.	**H-175**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	VIO/WHT	Exhaust Differential Pressure Sensor	VIO/WHT	H-173 (1)

Connector No.	**H-175**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
2	GRN/YEL	Exhaust Differential Pressure Sensor	GRN/YEL	H-173 (2)
3	WHT/ORN	Exhaust Differential Pressure Sensor	WHT/ORN	H-173 (3)
4	BLK/ORN	NOx Sensor 1	BLK/ORN	H-173 (4)
5	BLK	NOx Sensor 1	BLK	H-173 (5)
6	BLU	NOx Sensor 1	BLU	H-173 (6) Resister
7	BLU/WHT	NOx Sensor 1	BLU/WHT	H-173 (7) Resister
8	—	Not Used	—	Not Used



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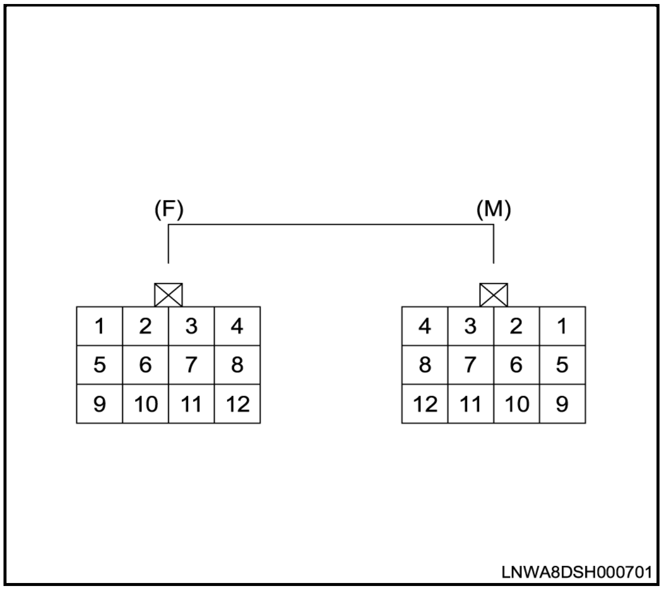
4497848

Connector No.	**H-195**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	Not Used	—	Not Used
2	—	Not Used	—	Not Used
3	BLU	J/C 10P ADD3 B-519 (3)	RED	J/C FMS-B B-452 (1)
4	—	Not Used	LT GRN	Analog Tachograph A (9)
5	BLK	Cab Junction Block 1 B16 (5)	BLK	J/C FMS-E B-453 (1)
6	BLU	CAN Joint FMS-L (3)	BLU	FMS CAN Interface Control Unit (23)
7	—	Not Used	—	Not Used
8	—	Not Used	—	Not Used
9	—	Not Used	—	Not Used
10	—	Not Used	—	Not Used

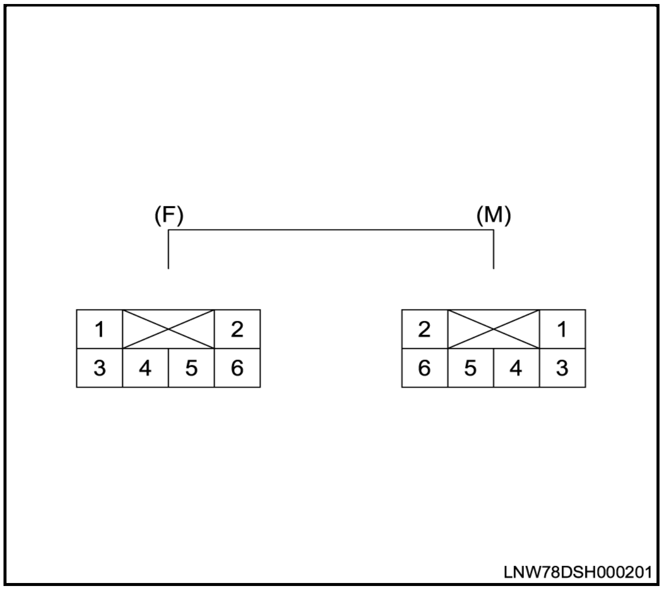
Connector No.	H-195			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
11	—	Not Used	—	Not Used
12	—	Not Used	YEL/RED	Analog Tachograph (20)
13	GRN	Sub Junction Block 1 B-137 (10)	GRN/YEL	J/C FMS-IG B-454 (1)
14	—	Not Used	—	Not Used
15	BLU/WHT	CAN Joint FMS-H (4)	BLU/WHT	FMS CAN Interface Control
16	—	Not Used	—	Not Used
17	RED	Sub Junction Block 1 B-134 (1)	LT BLU	FMS CAN Interface Control Unit (3)
18	—	Not Used	—	Not Used



4507140

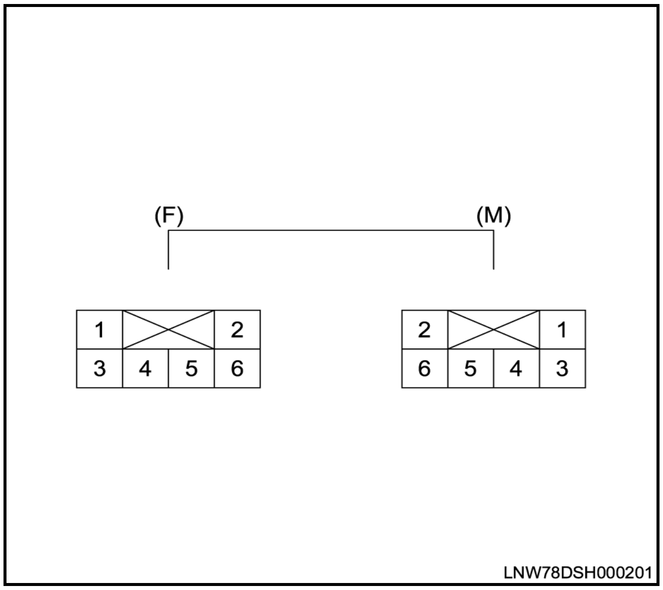
Connector No.	H-218			
Connector Color	Black			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
1	LT GRN	Diesel Particulate Filter(DPF) Fuel Pressure Sensor	LT GRN	ECM
2	WHT/ORN	Diesel Particulate Filter(DPF) Fuel Pressure Sensor	WHT/ORN	ECM
3	YEL/BLK	Diesel Particulate Filter(DPF) Fuel Pressure Sensor	YEL/BLK	ECM
4	GRN	EGR Valve	BLK/BLU	Fuse F-35 PM Sensor (13A)
5	WHT	Engine Oil Pressure Sensor	YEL/BRN	ECM
6	RED	Engine Oil Pressure Sensor	BRN/WHT	ECM
7	BLK	Engine Oil Pressure Sensor	PNK	ECM
8	—	Not Used	—	Not Used

Connector No.	**H-218**			
Connector Color	**Black**			
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
9	GRN/WHT	EGR Valve	GRN/WHT	Diesel Exhaust Fluid (DEF) Control Module
		H-218 (11)		ECM
10	GRN	EGR Valve	GRN	Diesel Exhaust Fluid (DEF) Control Module
		H-218 (12)		ECM
11	GRN/WHT	EGR Valve/H-218 (9)	GRN/WHT	H-174 (13)
12	GRN	EGR Valve/H-218 (10)	GRN	H-174 (14)



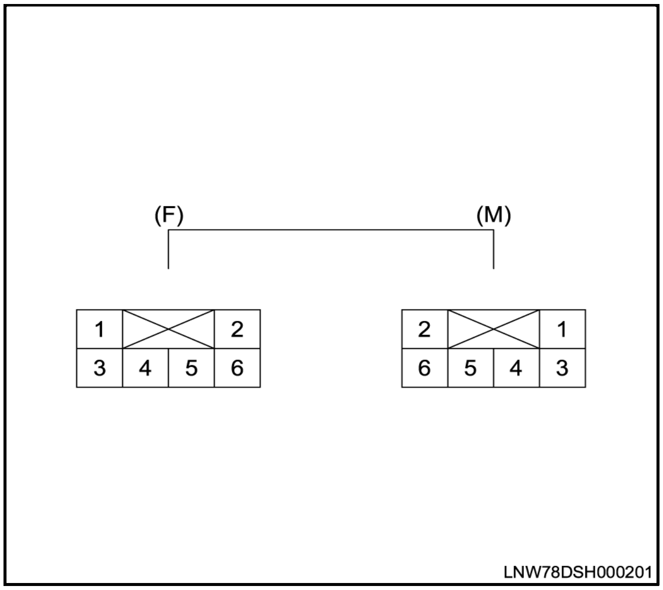
4711989

Connector No.	**H-234**			
Connector Color	**White**			
Test Adapter No.	**(M) J-35616-4A**		**(F) J-35616-5**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
1	—	—	RED	J/C FMS-B
2	—	—	GRY/YEL	J/C FMS-IG
3	—	—	—	—
4	—	—	BLK	J/C FMS-E
5	—	—	BRN	J/C CAN OUT-L
6	—	—	BRN/WHT	J/C CAN OUT-H


(F)
(M)
1
2
3
4
5
6
2
1
6
5
4
3
LNW78DSH000201

4711989

Connector No.	H-241			
Connector Color	White			
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
1	ORN/BLU	H-101 (14)	WHT	Wheel Speed Sensor Rear Left
2	WHT/BLU	H-101 (13)	BLK	Wheel Speed Sensor Rear Left


(F)
(M)
1
2
3
4
5
6
2
1
6
5
4
3
LNW78DSH000201

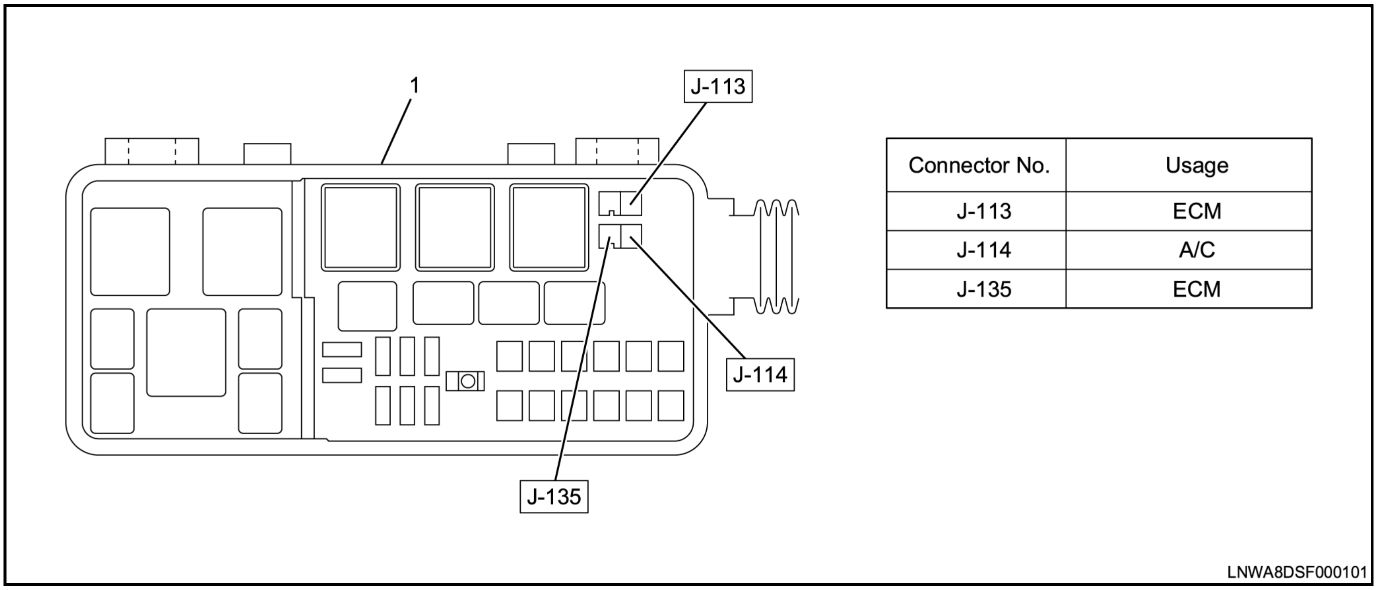
4711989

Connector No.	H-242			
Connector Color	(M) Black		(F) White	
Test Adapter No.	(M) J-35616-18		(F) J-35616-19	
	Male		Female	
Pin	Wire Color	Pin Function	Wire Color	Pin Function
1	VIO	H-101 (16)	WHT	Wheel Speed Sensor Rear Right

Connector No.	**H-242**			
Connector Color	**(M) Black**		**(F) White**	
Test Adapter No.	**(M) J-35616-18**		**(F) J-35616-19**	
	Male		**Female**	
Pin	**Wire Color**	**Pin Function**	**Wire Color**	**Pin Function**
2	WHT	H-101 (15)	BLK	Wheel Speed Sensor Rear Right

Component Locator

Diode Location



Connector No.	Usage
J-113	ECM
J-114	A/C
J-135	ECM

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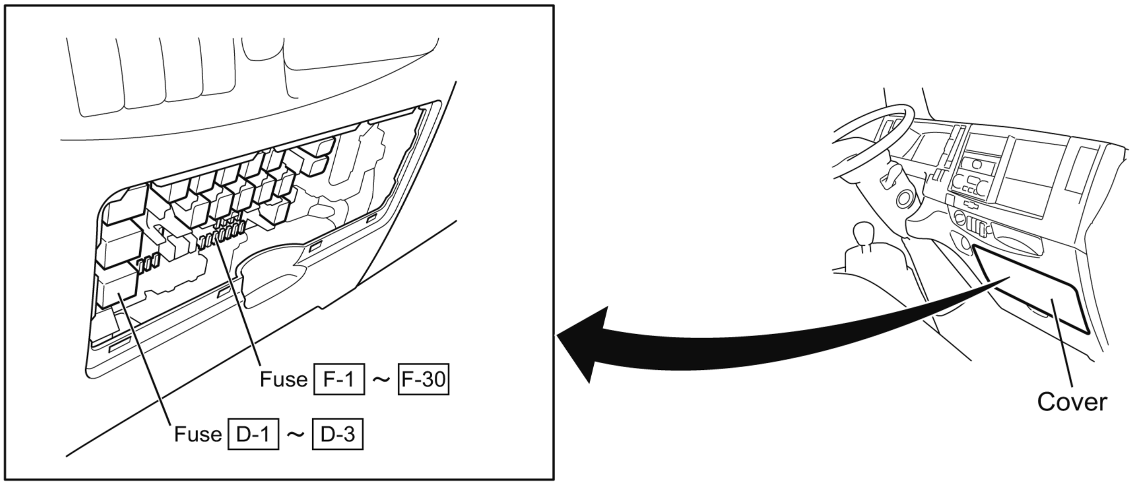
Legend

(1) Relay Box

Fuse, Fusible Link, and Slow-Blow Fuse Location

Fuse and Fuse Label



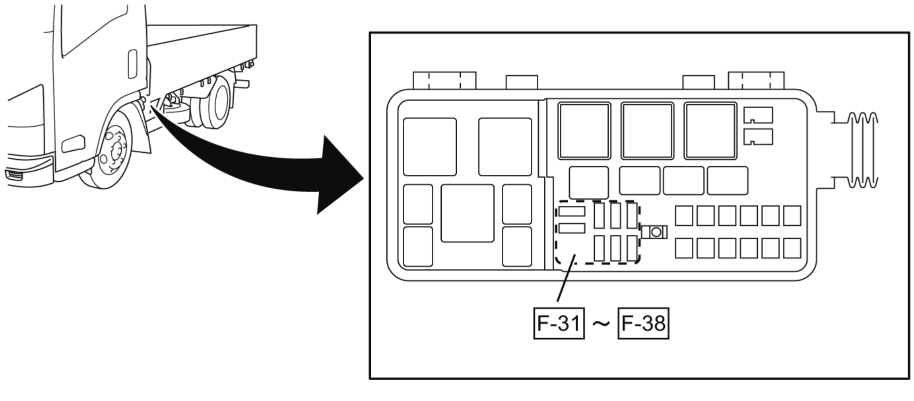
FUSE LABEL

RR P/WINDOW	—	ROOM LAMP,AUDIO	DOOR LOCK	TRAILER BRAKE	P/WINDOW	ABS	WIPER	H/LAMP LO (LH)	LAMPS (BATT)	H/LAMP LO (RH)	BRAKE LAMPS	STARTER	H/LAMP HI (LH)	H/LAMP HI (RH)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
25A		10A	15A	15A	25A	10A	25A	10A	10A	10A	10A	10A	10A	10A

SPARE SPARE SPARE SPARE

MIRROR HEATER	IGNITION2	IGNITION1	—	ECM	METER	ECU (BATT)	MIRROR	AUDIO. ACC	HORN	TURN, HAZARD	TAIL LAMPS	ILLUMINATIONS	CORNERING LAMPS	AIR CONDITIONER
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
15A	10A	10A		10A	10A	10A	10A	15A	15A	15A	10A	10A	10A	10A

D-1	20A	CIGAR
D-2	15A	ACCESSORIES SOCKET
D-3	20A	POWER SOURCE
D-4		



20A F-31	MARKER LAMP
20A F-32	TAIL MAIN
15A F-33	ECM MAIN
20A F-34	SCR
15A F-35	PM SENSOR
15A F-36	RR DOME LIGHT
20A F-37	CONDENSER FAN
10A F-38	AIR CONDITIONER

LNWF80XF000401

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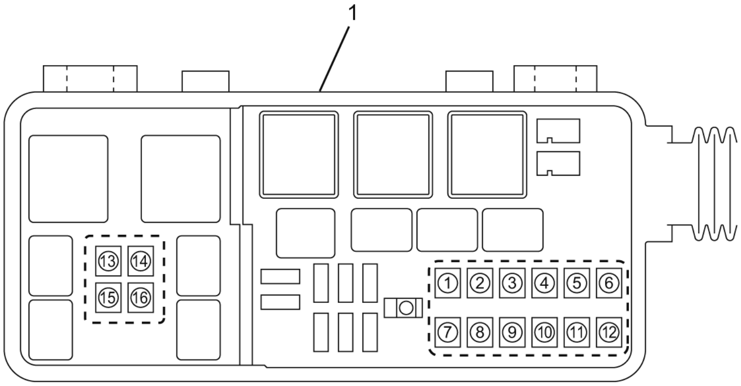
Note: The fuse numbers (1)-(30) indicated on the fuse labels are expressed as [F-1] □ [F-30] in the circuit diagrams of this manual.

The fuse numbers (D-1)-(D-3) indicated on the fuse labels are expressed as [F-39] □ [F-41] in the circuit diagrams of this manual.

Slow Blow Fuse



No.	SBF No.	Name	Capacity
①	FL-1	ECM	40A
②	FL-2	STARTER	60A
③	FL-3	POWER ACC	50A
④	FL-4	GLOW	60A
⑤	FL-5	STARTER SWITCH 2	40A
⑥	FL-6	STARTER SWITCH 1	30A
⑦	FL-7	HVAC	40A
⑧	FL-8	HEADLIGHT	30A
⑨	FL-9	RR DOME LIGHT	30A
⑩	FL-10	WIPER	50A
⑪	FL-11	ABS	60A
⑫	FL-12	JUNCTION BLOCK	50A
⑬	FL-13	FUEL HEATER	20A
⑭	FL-14	ETB	30A
⑮	FL-15	—	—
⑯	FL-16	TOWING CONVERTER	30A

LNWH80MF000301

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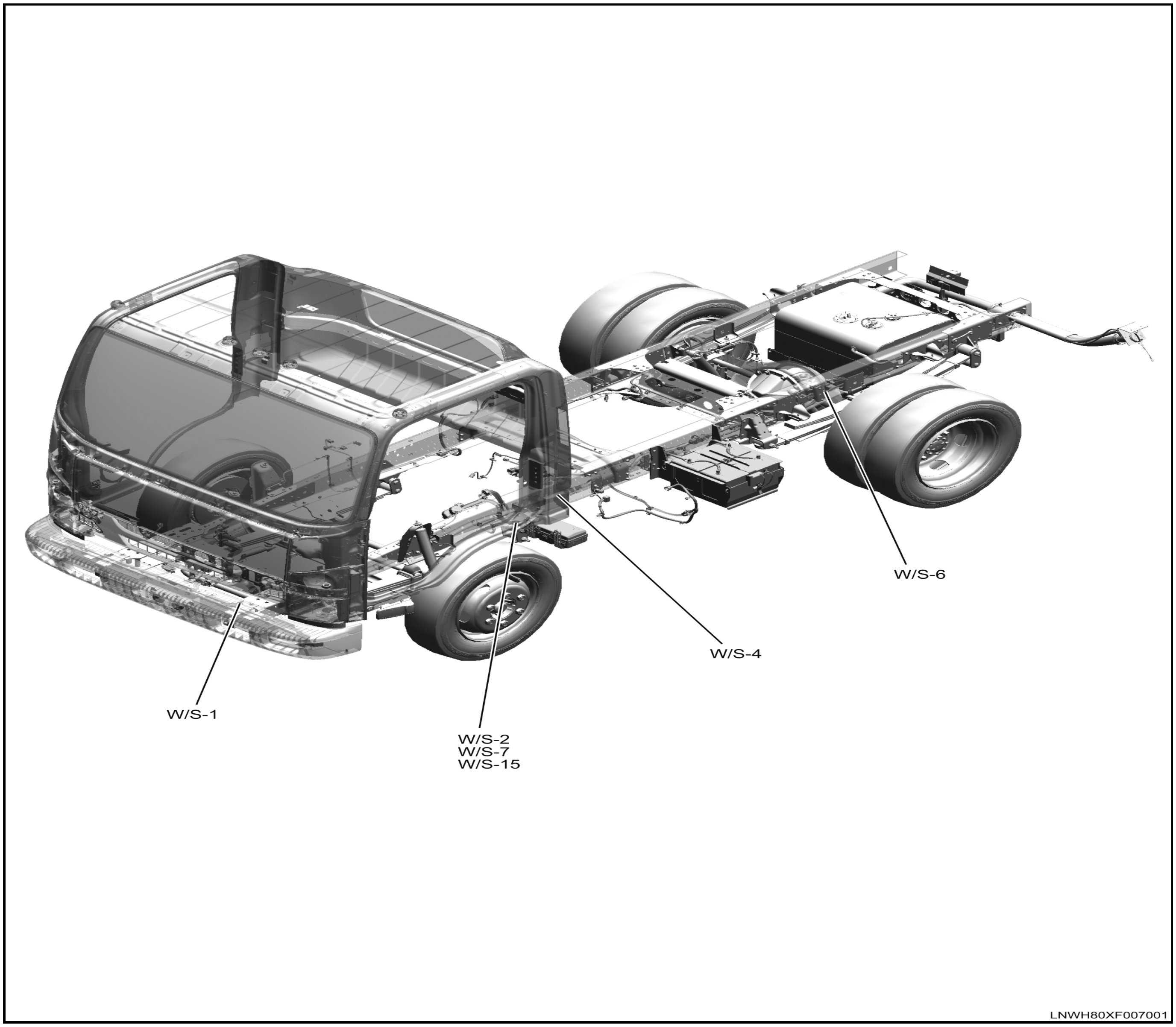
Legend

(1) Relay Box

Note: The slow blow fuse numbers (1)-(12) indicated on the fuse labels are expressed as [FL-1] □ [FL-12] in the circuit diagrams of this manual.

Joint Connection and Weld Splice Location

Frame Cable Harness


W/S-6
W/S-4
W/S-1
W/S-2
W/S-7
W/S-15
LNWH80XF007001

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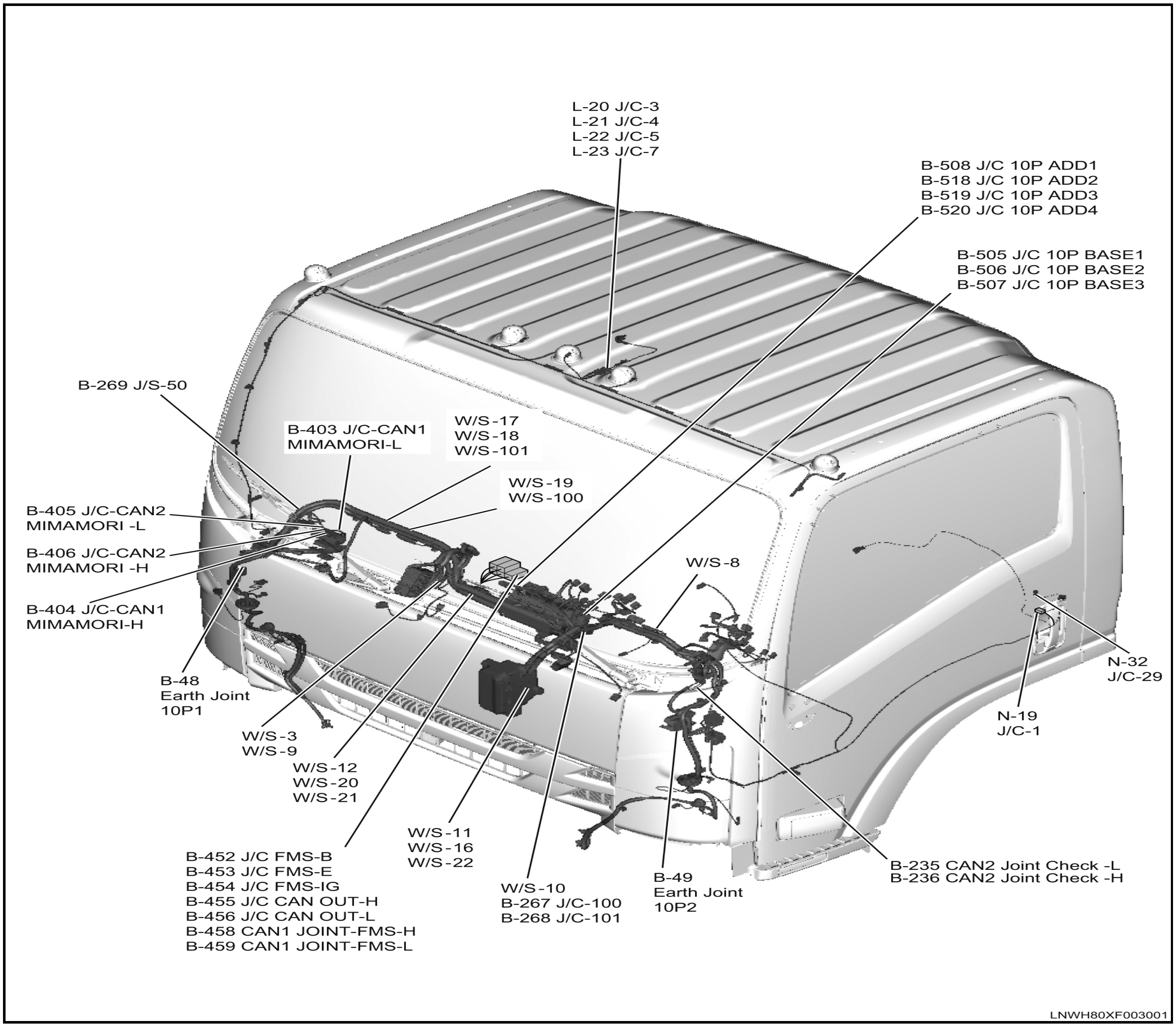
Body Cable Harness


L-20 J/C-3
L-21 J/C-4
L-22 J/C-5
L-23 J/C-7
B-508 J/C 10P ADD1
B-518 J/C 10P ADD2
B-519 J/C 10P ADD3
B-520 J/C 10P ADD4
B-505 J/C 10P BASE1
B-506 J/C 10P BASE2
B-507 J/C 10P BASE3
B-269 J/S-50
B-403 J/C-CAN1
MIMAMORI-L
W/S-17
W/S-18
W/S-101
W/S-19
W/S-100
B-405 J/C-CAN2
MIMAMORI -L
B-406 J/C-CAN2
MIMAMORI -H
W/S-8
B-404 J/C-CAN1
MIMAMORI-H
N-32
J/C-29
B-48
Earth Joint
10P1
N-19
J/C-1
W/S-3
W/S-9
W/S-12
W/S-20
W/S-21
W/S-11
W/S-16
W/S-22
B-452 J/C FMS-B
B-453 J/C FMS-E
B-454 J/C FMS-IG
B-455 J/C CAN OUT-H
B-456 J/C CAN OUT-L
B-458 CAN1 JOINT-FMS-H
B-459 CAN1 JOINT-FMS-L
W/S-10
B-267 J/C-100
B-268 J/C-101
B-49
Earth Joint
10P2
B-235 CAN2 Joint Check -L
B-236 CAN2 Joint Check -H
LNWH80XF003001

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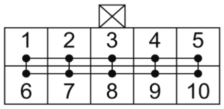
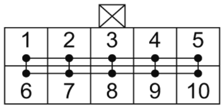
Joint Connection Circuit

B-48 Joint Connection
10P1



Joint Point	Terminal No.	Connection
●	1	DRL Control Unit
●	2	Heater Mirror RH Ground
●	3	Ext ETB-4
●	4	Joint Connection 10P2
●	5	Power Window Switch
●	6	W/S-13
●	7	Power Window Switch
●	8	Power Window Switch
●	9	Headlight RH Ground
●	10	Body Ground

B-49 Joint Connection
10P2



Joint Point	Terminal No.	Connection
●	1	Power Window Driver Switch Ground
●	2	Power Window Rear LH Switch Ground
●	3	W/S-16
●	4	Illumination Control Switch
●	5	Body Ground
●	6	Headlight LH Ground
●	7	Vacuum Pump Ground
●	8	Heater Mirror LH Ground
●	9	W/S-11
●	10	Joint Connection 10P1

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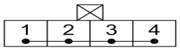
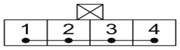
B-235 CAN2 Joint Check -L



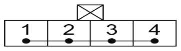
Joint Point	Terminal No.	Connection
●	1	Diesel Exhaust Fluid (DEF) Control Module
●	2	-
●	3	J/C-CAN 2 MIMAMORI -L
●	4	Data Link Connector

B-236 CAN2 Joint Check -H



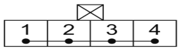
Joint Point	Terminal No.	Connection
●	1	Diesel Exhaust Fluid (DEF) Control Module
●	2	-
●	3	J/C-CAN 2 MIMAMORI -H
●	4	Data Link Connector

B-267 Joint Connection 100



Joint Point	Terminal No.	Connection
●	1	OPEN
●	2	ECM
●	3	OPEN
●	4	Accelerator Pedal Position Sensor

B-268 Joint Connection 101



Joint Point	Terminal No.	Connection
●	1	OPEN
●	2	ECM
●	3	OPEN
●	4	Accelerator Pedal Position Sensor

LNWH80XF002701

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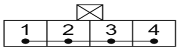
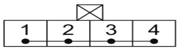
B-269 Joint Connection 50



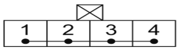
Joint Point	Terminal No.	Connection
●	1	Automatic Transmission
●	2	TCM
●	3	Automatic Transmission
●	4	—

B-452 J/C FMS-B



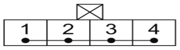
Joint Point	Terminal No.	Connection
●	1	Cab Junction Block 1
●	2	EXT Telematics
●	3	–
●	4	FMS CAN Interface Control Unit

B-453 J/C FMS-E



Joint Point	Terminal No.	Connection
●	1	J/C 10P ADD 3
●	2	EXT Telematics
●	3	–
●	4	FMS CAN Interface Control Unit

B-454 J/C FMS-IG



Joint Point	Terminal No.	Connection
●	1	Sub Junction Block 1
●	2	FMS CAN Interface Control Unit
●	3	–
●	4	EXT Telematics

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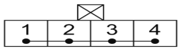
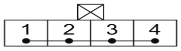
L-20 Joint Connection 3



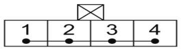
Joint Point	Terminal No.	Connection
●	1	ID 3
●	2	ID 2
●	3	Marker 1
●	4	Joint Connection 7

L-21 Joint Connection 4



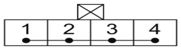
Joint Point	Terminal No.	Connection
●	1	ID 3
●	2	ID 2
●	3	Marker 1
●	4	Joint Connection 5

L-22 Joint Connection 5



Joint Point	Terminal No.	Connection
●	1	ID 1
●	2	Marker 2
●	3	Joint Connection 4
●	4	H-45 (6)

L-23 Joint Connection 7



Joint Point	Terminal No.	Connection
●	1	ID 1
●	2	Marker 2
●	3	Joint Connection 3
●	4	H-45 (4)

LNWH80XF000801

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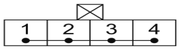
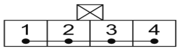
N-19 J/C-1



Joint Point	Terminal No.	Connection
●	1	W/S-11
●	2	Overdrive OFF Switch
●	3	Seat Belt Switch
●	4	Shift Lever

N-32 Joint Connection 29 (C-Cab)

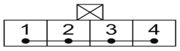


Joint Point	Terminal No.	Connection
●	1	Rear Door Switch (LH)
●	2	Rear Door Switch (RH)
●	3	Door Switch (LH)
●	4	Sub Junction Block 1, A

LNWH80XF002801

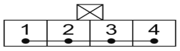
4708650

B-403 J/C-CAN 1
MIMAMORI - L



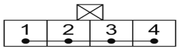
Joint Point	Terminal No.	Connection
●	1	MIMAMORI Control Unit
●	2	CAN Joint-FMS-L
●	3	TCM
●	4	Instrument Panel (IP) Cluster

B-404 J/C-CAN 1
MIMAMORI - H



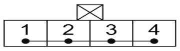
Joint Point	Terminal No.	Connection
●	1	MIMAMORI Control Unit
●	2	CAN Joint-FMS-H
●	3	TCM
●	4	Instrument Panel (IP) Cluster

B-405 J/C-CAN 2
MIMAMORI - L



Joint Point	Terminal No.	Connection
●	1	CAN 2 Joint Check -L
●	2	-
●	3	TCM
●	4	MIMAMORI Control Unit

B-406 J/C-CAN 2
MIMAMORI - H



Joint Point	Terminal No.	Connection
●	1	CAN 2 Joint Check -H
●	2	-
●	3	TCM
●	4	MIMAMORI Control Unit

LNWG80XF005701

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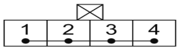
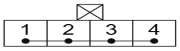
B-403 J/C-CAN 1
MIMAMORI - L



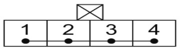
Joint Point	Terminal No.	Connection
●	1	MIMAMORI Control Unit
●	2	CAN Joint-FMS-L
●	3	TCM
●	4	Instrument Panel (IP) Cluster

B-404 J/C-CAN 1
MIMAMORI - H



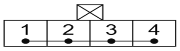
Joint Point	Terminal No.	Connection
●	1	MIMAMORI Control Unit
●	2	CAN Joint-FMS-H
●	3	TCM
●	4	Instrument Panel (IP) Cluster

B-405 J/C-CAN 2
MIMAMORI - L



Joint Point	Terminal No.	Connection
●	1	CAN 2 Joint Check -L
●	2	-
●	3	TCM
●	4	MIMAMORI Control Unit

B-406 J/C-CAN 2
MIMAMORI - H



Joint Point	Terminal No.	Connection
●	1	CAN 2 Joint Check -H
●	2	-
●	3	TCM
●	4	MIMAMORI Control Unit

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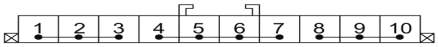
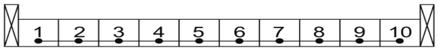
B-505 J/C 10P BASE 1



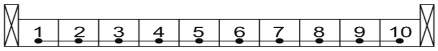
Joint Point	Terminal No.	Connection
●	1	Rear Dome Light Switch (1)
●	2	Rear Dome Light Switch (5)
●	3	Inst H.~Frame Frt H.
●	4	Inst H.~Roof H.
●	5	Cab J/B1.J
●	6	Inst H.~Roof H.
●	7	Audio
●	8	Intermittent Relay
●	9	Wiper & Exhaust Brake SW
●	10	Cab J/B1.J

B-506 J/C 10P BASE 2



Joint Point	Terminal No.	Connection
●	1	Cab J/B1.J
●	2	Accessory Power Relay
●	3	IP Cluster.A
●	4	Blower Resistor
●	5	Sub J/B1.E
●	6	Intermittent Relay
●	7	Inst H.~Door(RH) H.
●	8	Inst H.~Roof H.
●	9	Stoplight Switch
●	10	W/S-18

B-507 J/C 10P BASE 3



Joint Point	Terminal No.	Connection
●	1	W/S-18
●	2	Combination Switch
●	3	Rear Dome Light Switch (2)
●	4	Audio
●	5	Combination Switch
●	6	Hazard Switch
●	7	Inst H.~Door(LH) H.
●	8	Brake Fluid Level Switch
●	9	Combination Switch
●	10	Wiper & Exhaust Brake SW

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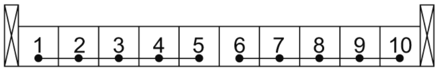
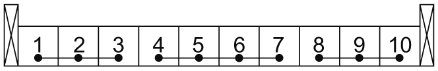
B-508 J/C 10P ADD 1



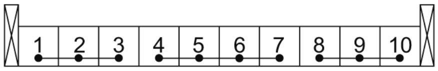
Joint Point	Terminal No.	Connection
●	1	Door Lock Relay
●	2	Inst H.~Door(LH) H.
●	3	Inst H.~Door(RH) H.
●	4	Inst H.~Floor(RH) H.
●	5	Inst H.~Floor(LH) H. MT AT
●	6	Door Lock Relay
●	7	Inst H.~Door(LH) H.
●	8	Inst H.~Door(RH) H.
●	9	Inst H.~Floor(RH) H.
●	10	Inst H.~Floor(LH) H. MT AT

B-518 J/C 10P ADD 2



Joint Point	Terminal No.	Connection
●	1	Door Lock Relay
●	2	Door Lock Switch
●	3	Keyless Entry Control Unit
●	4	Diode Door Lock
●	5	Door Lock Relay
●	6	Door Lock Switch
●	7	Keyless Entry Control Unit
●	8	Cab J/B1.F
●	9	Door Lock Relay
●	10	Keyless Entry Control Unit

B-519 J/C 10P ADD 3

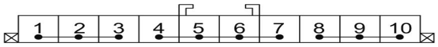


Joint Point	Terminal No.	Connection
●	1	Cab J/B1.A
●	2	Data Link Connector
●	3	INST H. - EXT Tacho H.
●	4	Inst H.~Frame Frt H.
●	5	Cab J/B1.A
●	6	A/C Switch
●	7	Defroster Switch
●	8	Mirror Heater Switch
●	9	Mirror Heater Switch
●	10	Inst H.~Door(LH) H.

LNWG80XF010501

4499650

B-520 J/C 10P ADD 4



Joint Point	Terminal No.	Connection
●	1	Sub Junction Block 1. G
●	2	TCM
●	3	Shift Lever
●	4	PTO Switch 2
●	5	PTO Switch 2
●	6	PTO Engine Speed Control Switch
●	7	Inst H.~Frame Frt H.
●	8	Inst H.~Frame Frt H.
●	9	Diode 7
●	10	Vacuum Tank Switch

LNWH80XF002901

4708663

Reference Table of Weld Splice

Connector No.	Usage
W/S-1	Diesel Exhaust Fluid (DEF) Control Module
	Diesel Exhaust Fluid (DEF) Control Module
	Diesel Exhaust Fluid (DEF) Control Module
	Earth Body SCR 1
W/S-2	Exhaust Brake Solenoid Valve
	MAF and IAT Sensor
	VNT Control Module
	Fuse 33
	Glow Plug Control Module
W/S-3	Blower Motor
	Blower Resistor
	Fan Control Switch

Reference Table of Weld Splice (cont'd)

Connector No.	Usage
W/S-4	Earth Body 11
	Earth Body 20
	Towing Converter
	Condenser Fan Motor
	Triple Pressure Switch
	Brake Fluid Level Switch (HBB)
	Inhibitor Switch
	Air Cleaner Switch
	Fuel Sedimenter Switch
	W/S-6

Reference Table of Weld Splice (cont'd)

Connector No.	Usage
W/S-6	Body Earth 14
	Rear Combination Light (RH)
	To PTO 2 (Set Speed Switch)
	Back Buzzer (Upfitter Install)
	W/S-4
W/S-7	Body Earth 4
	ECM
	ECM
	ECM
	ECM
	ECM
	ECM
	ECM
	Marker Light Relay
	Diode 1
W/S-8	Slow Blow Fuse 5
	Ignition Switch
	Slow Blow Fuse 5
W/S-9	Cab Junction Block 1.P (Fuse 30)
	Blower Relay
	Blower Motor
W/S-10	Cigarette Lighter Relay
	Cab Junction Block 1.P (Fuse 3)
	Slow Blow Fuse 12
W/S-11	Front Door Lock Motor LH
	Door Lock Switch
	Mirror Heater Switch
	Front Turn Light LH
	Front Position Light LH
	Cab J/B1.C
	Cab J/B1.G
	J/C-1
	Earth Joint 10P2
W/S-12	Rear Power Window Switch(LH)
	Cab Junction Block 1.A (Fuse 1)
	Rear Power Window Switch(RH)
	Rear Power Window Switch(LH)
	Rear Power Window Switch(RH)

Reference Table of Weld Splice (cont'd)

Connector No.	Usage
W/S-13	TCM
	TCM
	Earth Joint 10P1
	Front Position Light (RH)
	Side Marker Light (RH)
	Door Lock Relay
	Door Lock Relay
	Keyless Entry Control Unit
	MIMAMORI C/U
	Front Turn Light(RH)
W/S-15	ECM
	ECM Main Relay
	ECM
	ECM
	ECM
	Fuse 33
	Fuse 35
W/S-16	PTO Switch 2
	Pressure Switch
	Electronic Thermostat
	Side Marker Light (LH)
	A/C Switch
	Data Link Connector
	Earth Joint 10P2
	Low Coolant Level Controller
	Cab J/B 1.B
	RS232C Ch1
W/S-17	Body Earth 15
	Body Earth 9
	Front Wiper Motor
	Fan Control Switch
W/S-18	Body Earth 22
	Body Earth 21
	J/C 10P BASE2
	J/C 10P BASE3
	ACC Socket B
	Cigarette Lighter B
W/S-19	Rear Heater (Crew Cab)
	Cigarette Lighter A
	Fuse 39
W/S-20	Headlight (LH)
	DRL Control Unit B
	Cab Junction Block 1.B (Fuse 9)

Reference Table of Weld Splice (cont'd)

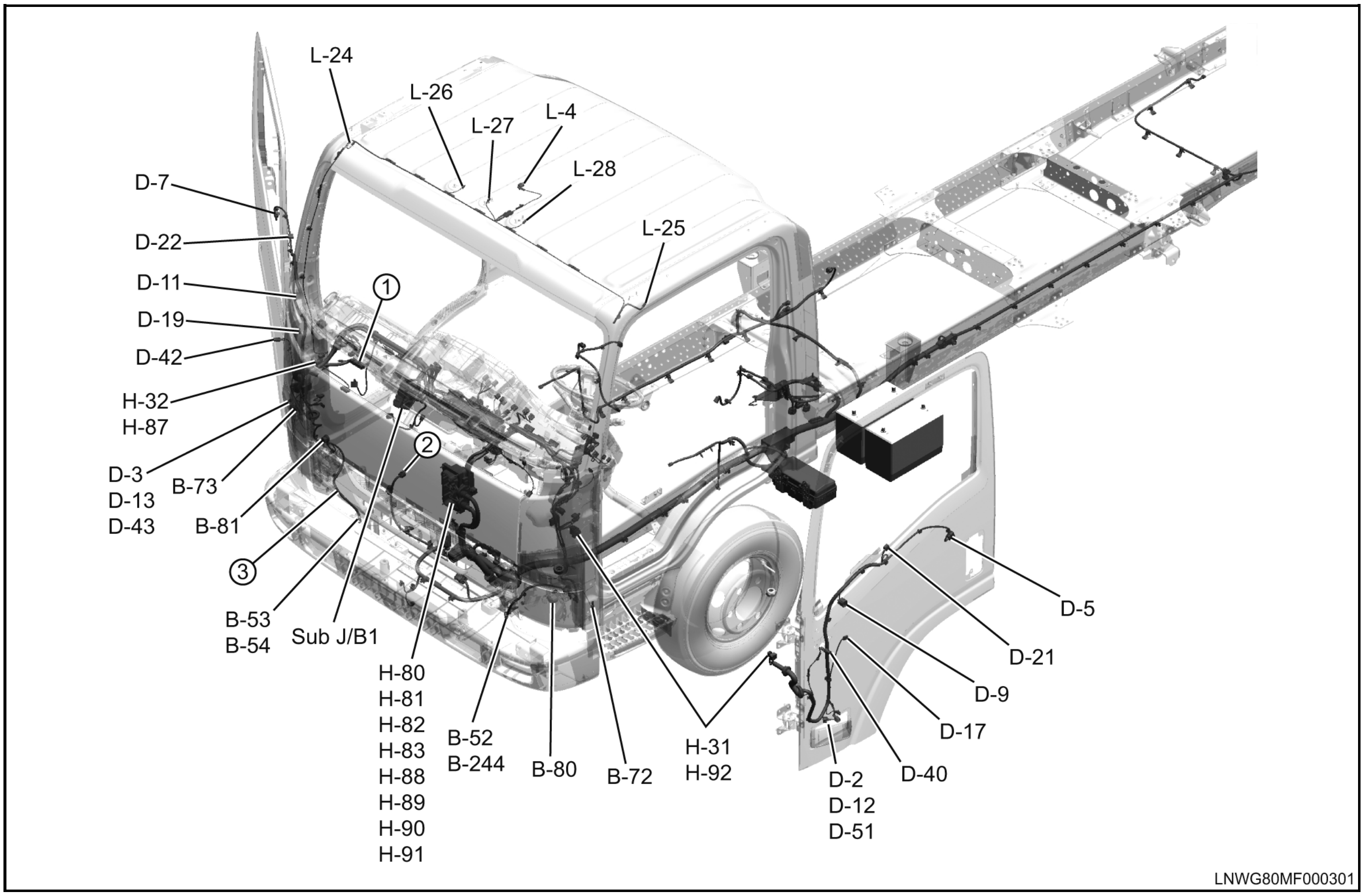
Connector No.	Usage
W/S-21	Headlight (RH)
	DRL Control Unit B
	Cab Junction Block 1.F (Fuse 11)
W/S-22	Mimamori C/U
	Shift Lever
	Rear Body Switch
	Fuse 23
	Cab J/B1.K

Reference Table of Weld Splice (cont'd)

Connector No.	Usage
W/S-25	Relay Box
	Cub Junction Block 1.P
	Cub Junction Block 1.M
W/S-100	Cab J/B 1.E (Front Wiper Motor)
	Intermittent Relay
	Wiper Main Relay
W/S-101	Front Wiper Motor
	Front Washer Motor
	Cab Junction Block 1.F (Fuse 8)

Parts Location

The parts location shows the location of the parts (1) and the connector (2) used in each harness routing (3).


L-24
L-26
L-27
L-4
L-28
L-25
D-7
D-22
D-11
D-19
D-42
H-32
H-87
D-3
D-13
D-43
B-73
B-81
①
②
③
B-53
B-54
Sub J/B1
H-80
H-81
H-82
H-83
H-88
H-89
H-90
H-91
B-52
B-244
B-80
B-72
H-31
H-92
D-2
D-12
D-51
D-40
D-17
D-9
D-21
D-5
LNWG80MF000301

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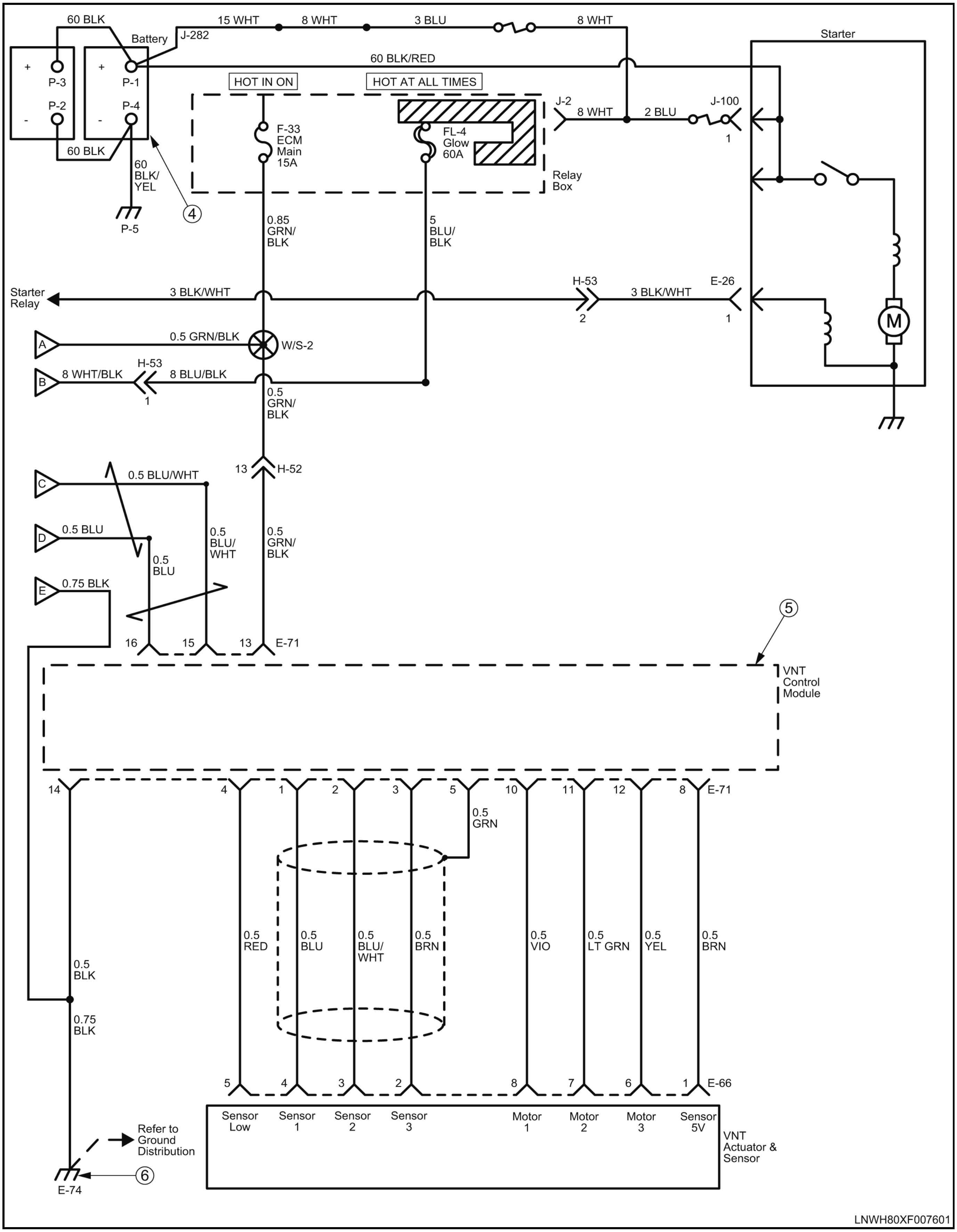
Circuit Diagram

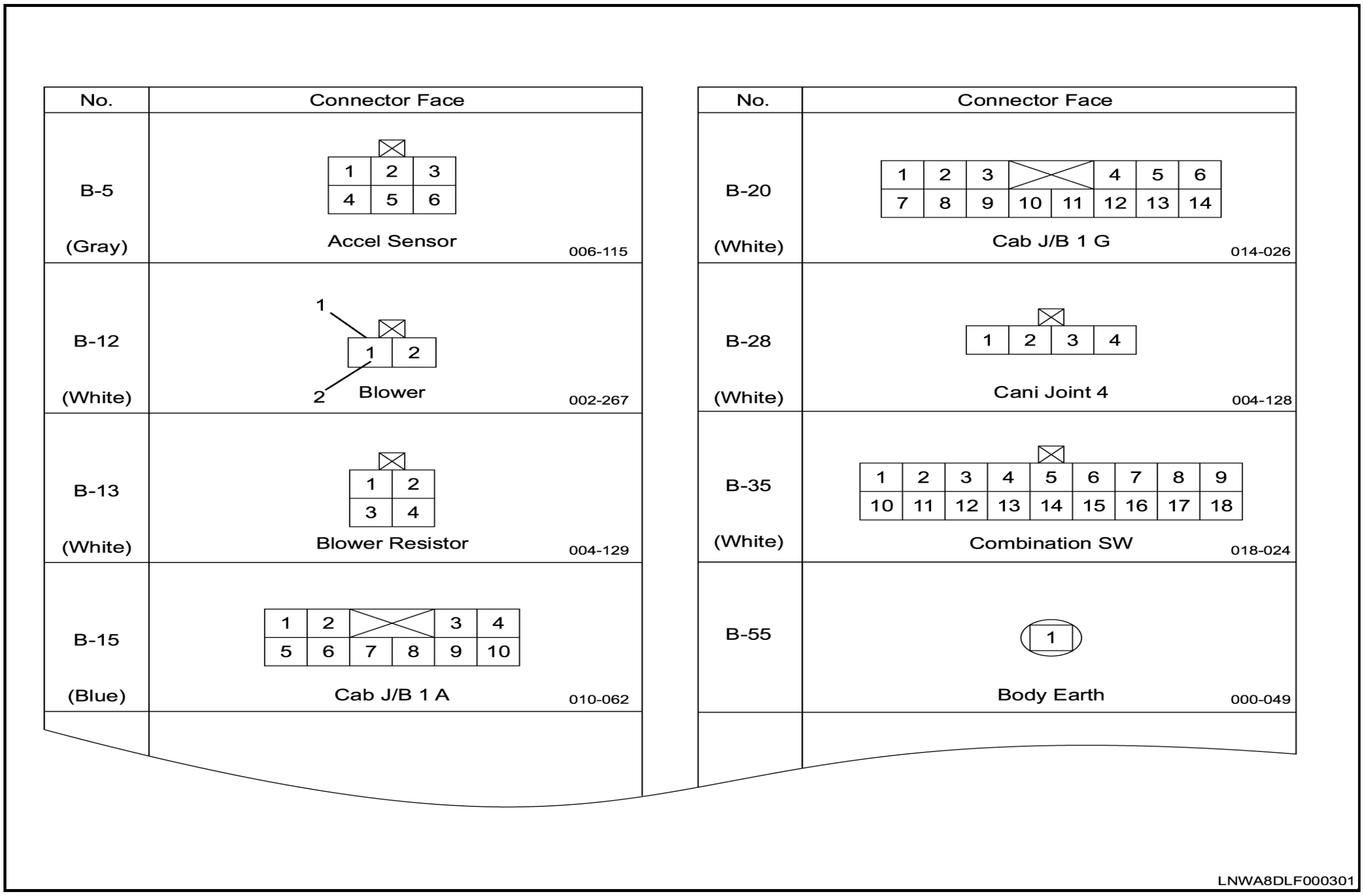
The circuit diagram shows the power supply (4) the load or loads (5) and the grounding point(s) (6).


60 BLK
Battery
J-282
15 WHT
8 WHT
3 BLU
8 WHT
Starter
60 BLK/RED
+
P-3
+
P-1
P-2
P-4
-
-
60 BLK
60 BLK/YEL
P-5
④
HOT IN ON
HOT AT ALL TIMES
F-33 ECM Main 15A
FL-4 Glow 60A
J-2
8 WHT
2 BLU
J-100
1
Relay Box
0.85 GRN/BLK
5 BLU/BLK
Starter Relay
3 BLK/WHT
H-53
2
3 BLK/WHT
E-26
1
M
A
0.5 GRN/BLK
W/S-2
B
8 WHT/BLK
H-53
1
8 BLU/BLK
0.5 GRN/BLK
13
H-52
C
0.5 BLU/WHT
D
0.5 BLU
0.5 BLU
0.5 BLU/WHT
0.5 GRN/BLK
E
0.75 BLK
16
15
13
E-71
⑤
VNT Control Module
14
4
1
2
3
5
10
11
12
8
E-71
0.5 GRN
0.5 BLK
0.75 BLK
0.5 RED
0.5 BLU
0.5 BLU/WHT
0.5 BRN
0.5 VIO
0.5 LT GRN
0.5 YEL
0.5 BRN
5
4
3
2
8
7
6
1
E-66
Sensor Low
Sensor 1
Sensor 2
Sensor 3
Motor 1
Motor 2
Motor 3
Sensor 5V
VNT Actuator & Sensor
Refer to Ground Distribution
⑥
E-74
LNWH80XF007601

4725964

Connector List

The connector list shows each connector’s configuration (1) and the pin number (2).


No.
Connector Face
B-5
(Gray)
1 2 3
4 5 6
Accel Sensor
006-115
B-12
(White)
1
2
1 2
Blower
002-267
B-13
(White)
1 2
3 4
Blower Resistor
004-129
B-15
(Blue)
1 2 3 4
5 6 7 8 9 10
Cab J/B 1 A
010-062
B-20
(White)
1 2 3 4 5 6
7 8 9 10 11 12 13 14
Cab J/B 1 G
014-026
B-28
(White)
1 2 3 4
Cani Joint 4
004-128
B-35
(White)
1 2 3 4 5 6 7 8 9
10 11 12 13 14 15 16 17 18
Combination SW
018-024
B-55
1
Body Earth
000-049
LNWA8DLF000301

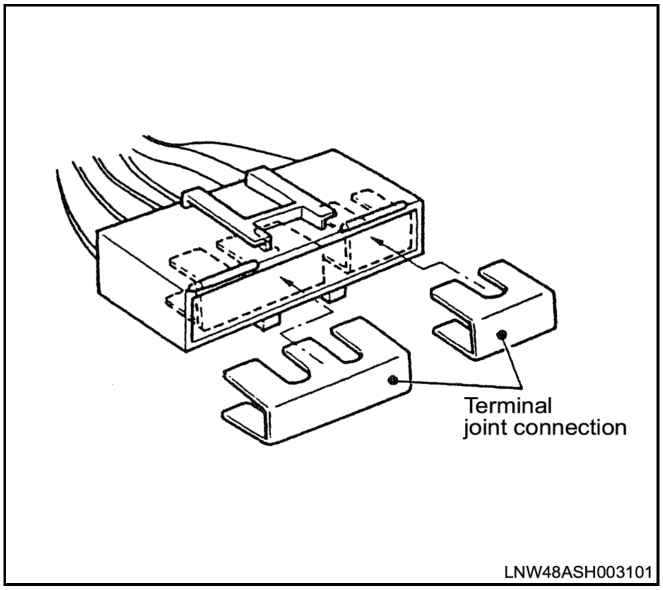
4495892

Connector Symbol

Connector Symbol	Harness name	Connector Symbol	Harness name
B	Body (Inst.) Harness	L	Dome Light Harness
D	Door Harness	N	Floor Harness (LH and RH)
E	Engine Harness	P	Battery Harness
H	For joint between harnesses	X	Body & frame front harness
J	Frame front and frame rear harness		

Joint Connection

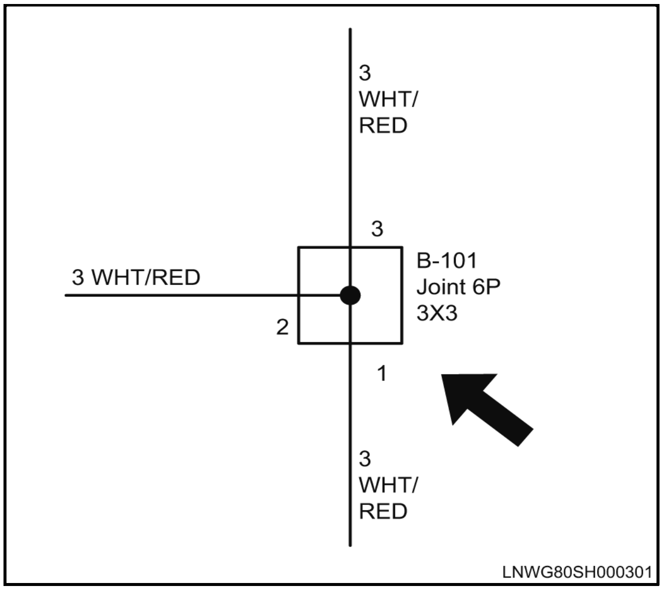
This connector has the structure of plural number of terminals collectively connected inside the connector.


Terminal
joint connection
LNW48ASH003101

4495894

How to show joint connection in the circuit diagram

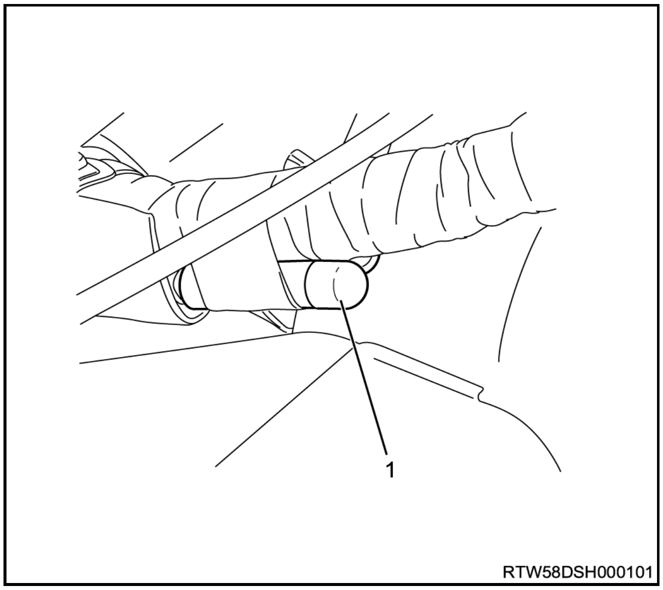
1. When joint connection can be shown as actual circuit diagram.


3
WHT/
RED
3
3 WHT/RED
B-101
Joint 6P
3X3
2
1
3
WHT/
RED
LNWG80SH000301

4495898

Weld Splice

Weld splice is a harness that welds the point of the harness and does joint.


1
RTW58DSH000101

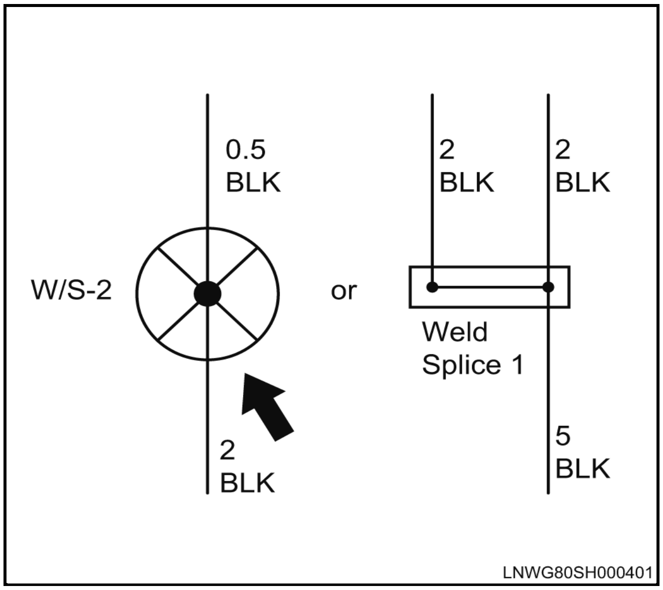
4495896

Legend

(1) Weld Splice

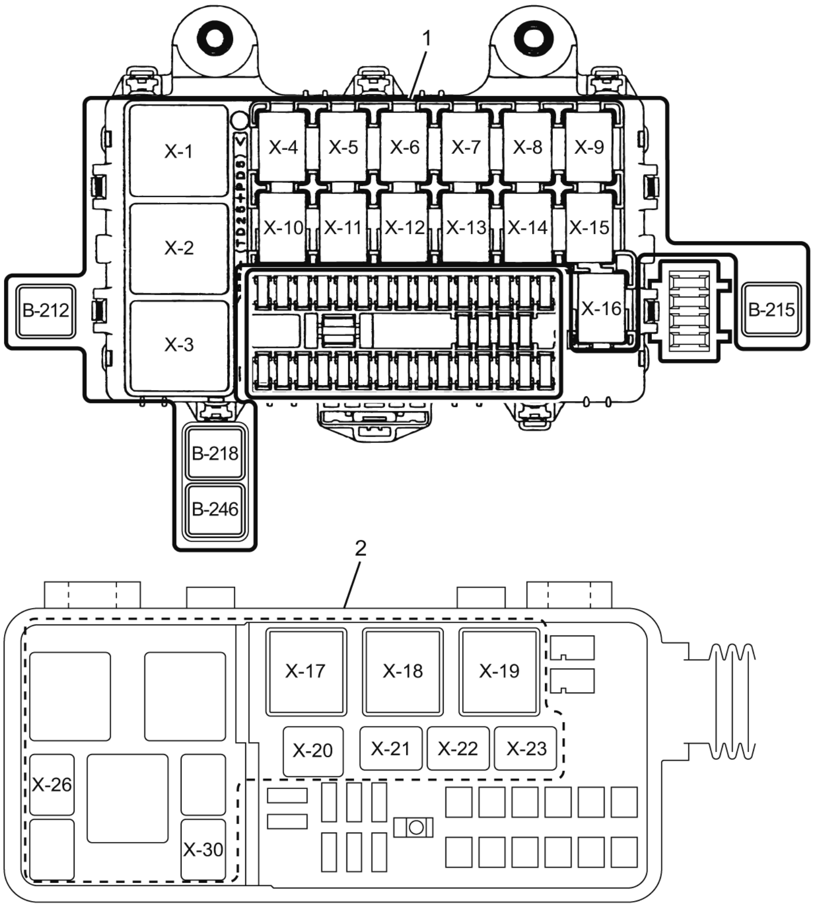
How to show weld splice in the circuit diagram

1. When weld splice can be shown as actual circuit diagram.


0.5
BLK
2
BLK
2
BLK
W/S-2
or
Weld
Splice 1
2
BLK
5
BLK
LNWG80SH000401

4495899

Relay Location


1
X-1
X-2
X-3
X-4
X-5
X-6
X-7
X-8
X-9
X-10
X-11
X-12
X-13
X-14
X-15
X-16
B-212
B-215
B-218
B-246
2
X-17
X-18
X-19
X-20
X-21
X-22
X-23
X-26
X-30

LNWH80LF000101

4708587

Legend

(1) Cab Junction Block

(2) Relay Box

Relay List

Connector No.	Relay Name
Connector No.	Relay Name
X-1	Stoplight
X-2	Daytime Running Light
X-3	Key On
X-4	TCM
X-5	P/N Start
X-6	Wiper Main
X-7	Horn
X-8	Wiper High/ Low
X-9	Trailer Stop

Relay List (cont'd)

Connector No.	Relay Name
X-10	Rear Power Window
X-11	—
X-12	Front Power Window
X-13	Headlight(Low)
X-14	Vacuum Pump
X-15	Headlight(High)
X-16	Taillight
B-212	Accessory Power
B-215	Blower Motor
B-218	Cigarette Lighter
B-246	Cornering Light

Relay List (cont'd)

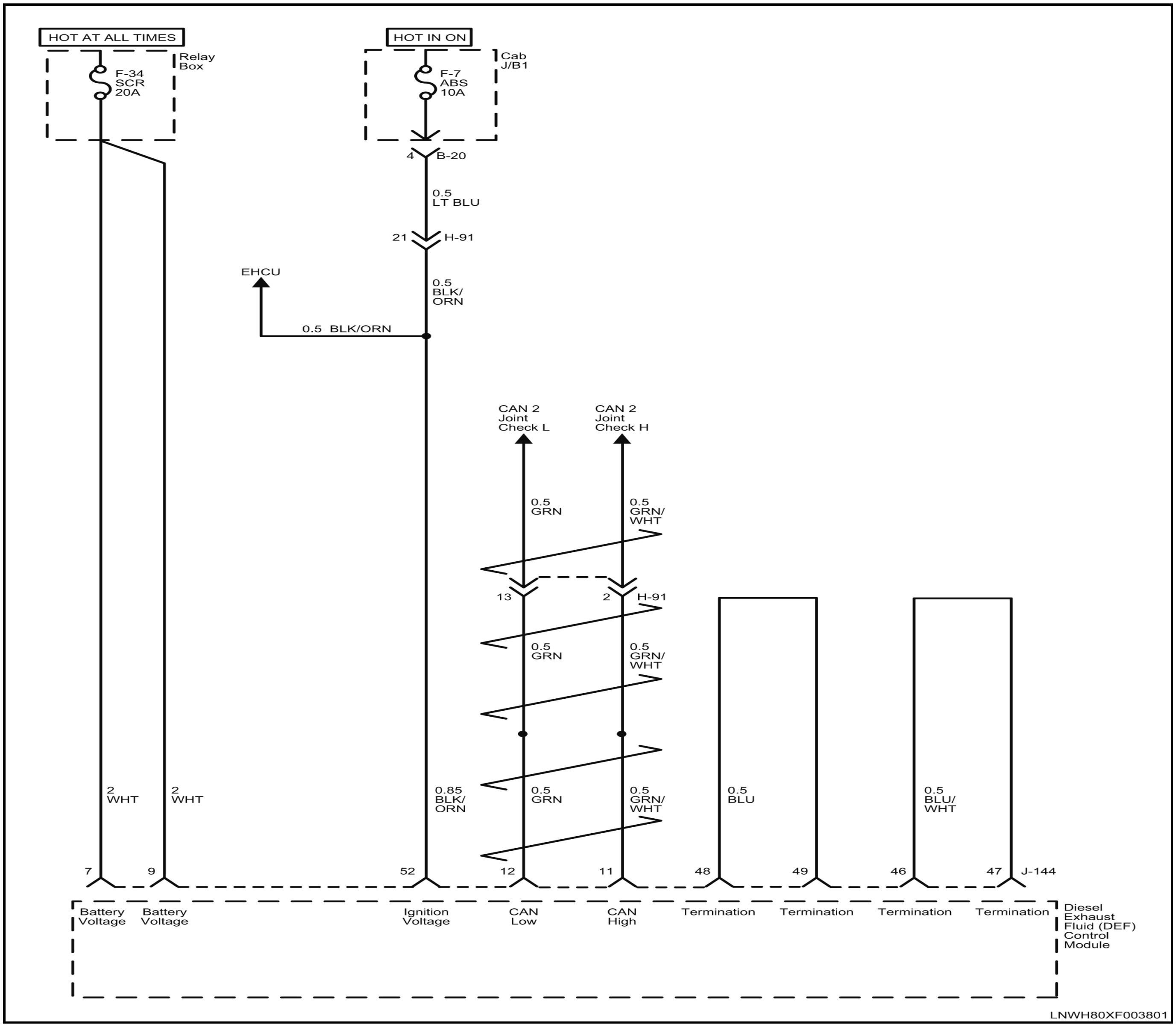
Connector No.	Relay Name
X-17	Starter
X-18	ECM Main
X-19	NOx & Diesel Exhaust Fluid (DEF) Sensor
X-20	Magnetic Clutch
X-21	Condenser Fan

Relay List (cont'd)

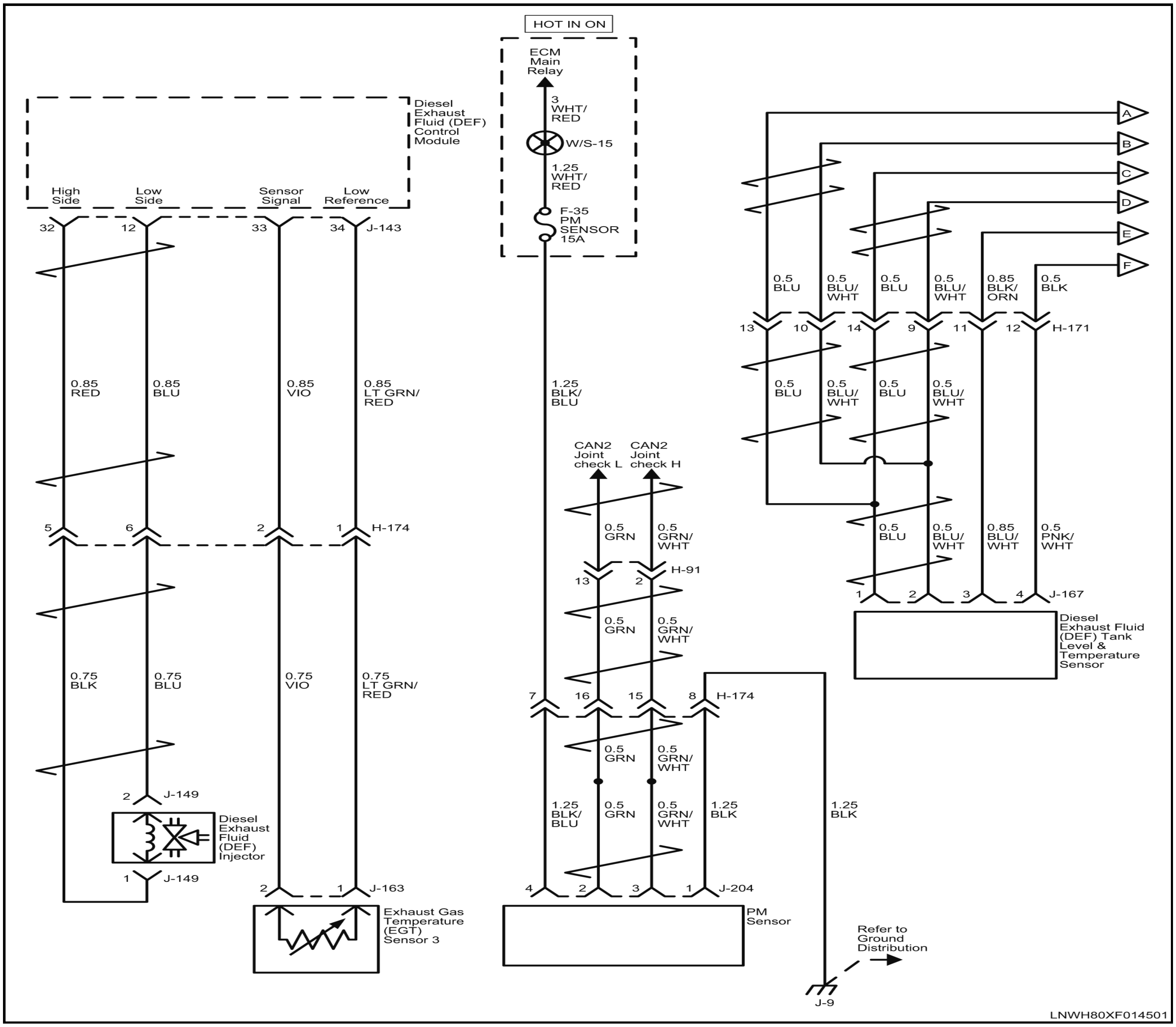
Connector No.	Relay Name
X-22	Rear Dome Light
X-23	Heater Valve
X-26	Marker Lamp
X-30	Fuel Heater

Schematic and Routing Diagrams

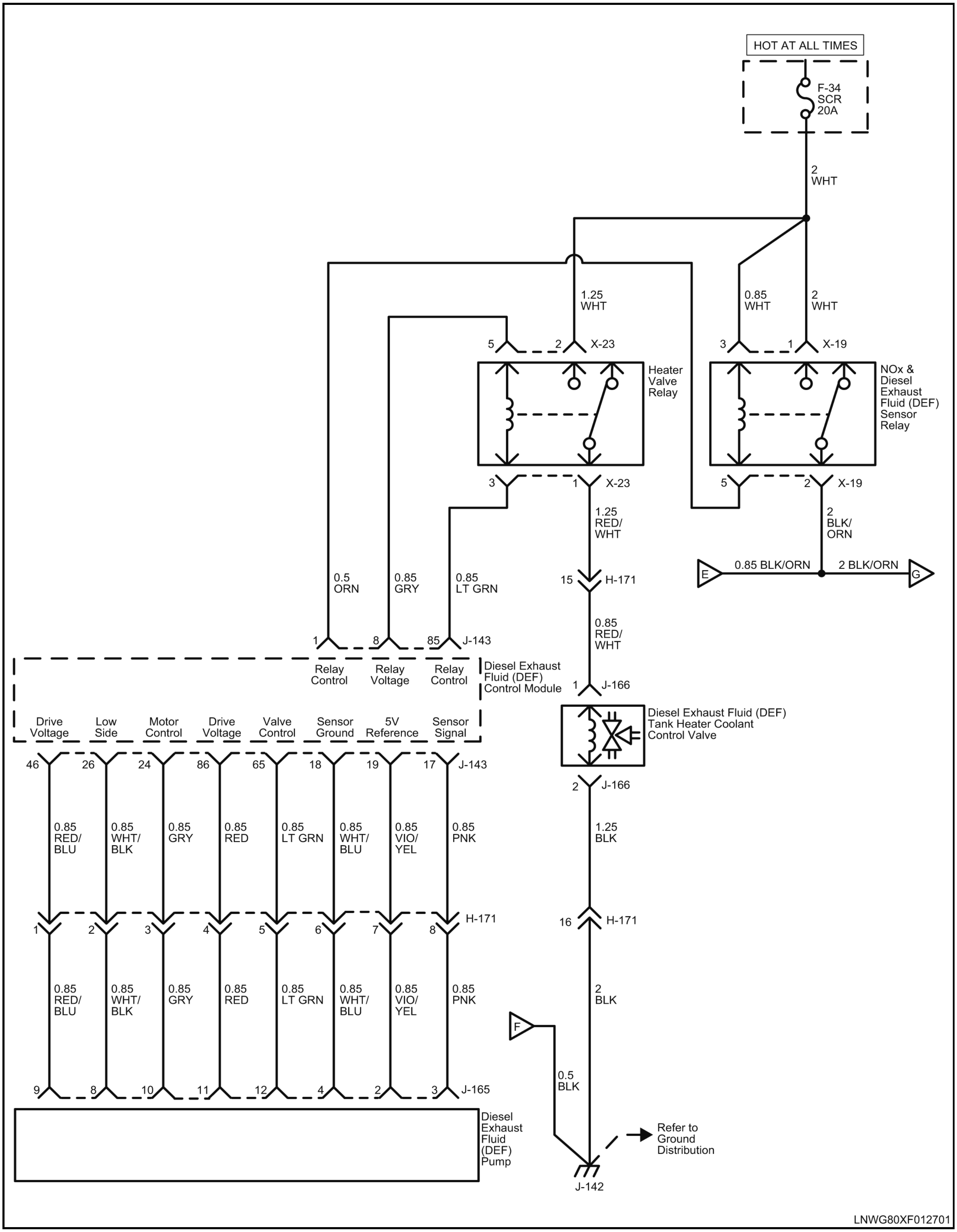
Selective Catalyst Reduction (SCR) Schematics


HOT AT ALL TIMES
Relay Box
F-34 SCR 20A
HOT IN ON
Cab J/B1
F-7 ABS 10A
4 B-20
0.5 LT BLU
21 H-91
EHCU
0.5 BLK/ORN
0.5 BLK/ORN
CAN 2 Joint Check L
CAN 2 Joint Check H
0.5 GRN
0.5 GRN/WHT
13
2 H-91
0.5 GRN
0.5 GRN/WHT
2 WHT
2 WHT
0.85 BLK/ORN
0.5 GRN
0.5 GRN/WHT
0.5 BLU
0.5 BLU/WHT
7
9
52
12
11
48
49
46
47 J-144
Battery Voltage
Battery Voltage
Ignition Voltage
CAN Low
CAN High
Termination
Termination
Termination
Termination
Diesel Exhaust Fluid (DEF) Control Module
LNWH80XF003801

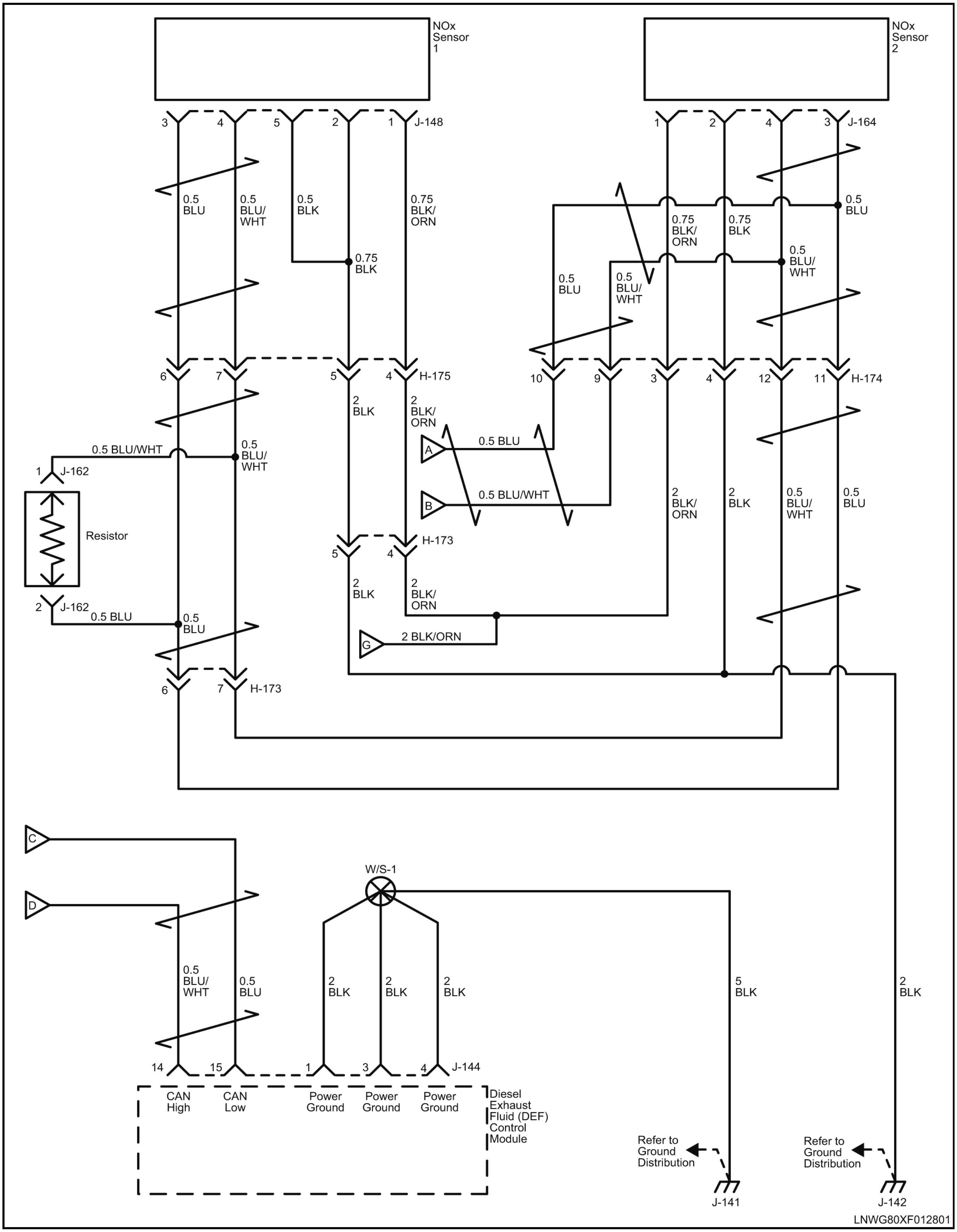
4709916


HOT IN ON
ECM Main Relay
3 WHT/ RED
W/S-15
1.25 WHT/ RED
F-35 PM SENSOR 15A
1.25 BLK/ BLU
Diesel Exhaust Fluid (DEF) Control Module
High Side
Low Side
Sensor Signal
Low Reference
32
12
33
34
J-143
0.85 RED
0.85 BLU
0.85 VIO
0.85 LT GRN/ RED
5
6
2
1
H-174
0.75 BLK
0.75 BLU
0.75 VIO
0.75 LT GRN/ RED
2
J-149
Diesel Exhaust Fluid (DEF) Injector
1
J-149
2
1
J-163
Exhaust Gas Temperature (EGT) Sensor 3
CAN2 Joint check L
CAN2 Joint check H
0.5 GRN
0.5 GRN/ WHT
13
2
H-91
0.5 GRN
0.5 GRN/ WHT
7
16
15
8
H-174
0.5 GRN
0.5 GRN/ WHT
1.25 BLK/ BLU
0.5 GRN
0.5 GRN/ WHT
1.25 BLK
1.25 BLK
4
2
3
1
J-204
PM Sensor
Refer to Ground Distribution
J-9
A
B
C
D
E
F
0.5 BLU
0.5 BLU/ WHT
0.5 BLU
0.5 BLU/ WHT
0.85 BLK/ ORN
0.5 BLK
13
10
14
9
11
12
H-171
0.5 BLU
0.5 BLU/ WHT
0.5 BLU
0.5 BLU/ WHT
0.5 BLU
0.5 BLU/ WHT
0.85 BLU/ WHT
0.5 PNK/ WHT
1
2
3
4
J-167
Diesel Exhaust Fluid (DEF) Tank Level & Temperature Sensor
LNWH80XF014501

4709954


HOT AT ALL TIMES
F-34
SCR
20A
2
WHT
1.25
WHT
0.85
WHT
2
WHT
5
2
X-23
3
1
X-19
Heater
Valve
Relay
NOx &
Diesel
Exhaust
Fluid (DEF)
Sensor
Relay
3
1
X-23
5
2
X-19
1.25
RED/
WHT
2
BLK/
ORN
E
0.85 BLK/ORN
2 BLK/ORN
G
15
H-171
0.5
ORN
0.85
GRY
0.85
LT GRN
0.85
RED/
WHT
1
8
85
J-143
Relay
Control
Relay
Voltage
Relay
Control
Diesel Exhaust
Fluid (DEF)
Control Module
1
J-166
Diesel Exhaust Fluid (DEF)
Tank Heater Coolant
Control Valve
Drive
Voltage
Low
Side
Motor
Control
Drive
Voltage
Valve
Control
Sensor
Ground
5V
Reference
Sensor
Signal
46
26
24
86
65
18
19
17
J-143
2
J-166
0.85
RED/
BLU
0.85
WHT/
BLK
0.85
GRY
0.85
RED
0.85
LT GRN
0.85
WHT/
BLU
0.85
VIO/
YEL
0.85
PNK
1.25
BLK
1
2
3
4
5
6
7
8
H-171
16
H-171
0.85
RED/
BLU
0.85
WHT/
BLK
0.85
GRY
0.85
RED
0.85
LT GRN
0.85
WHT/
BLU
0.85
VIO/
YEL
0.85
PNK
2
BLK
F
0.5
BLK
9
8
10
11
12
4
2
3
J-165
Diesel
Exhaust
Fluid
(DEF)
Pump
Refer to
Ground
Distribution
J-142
LNWG80XF012701

4502484


NOx Sensor 1
NOx Sensor 2
3
4
5
2
1
J-148
1
2
4
3
J-164
0.5 BLU
0.5 BLU/WHT
0.5 BLK
0.75 BLK
0.75 BLK/ORN
0.5 BLU
0.75 BLK/ORN
0.75 BLK
0.5 BLU/WHT
0.5 BLU
0.5 BLU/WHT
6
7
5
4
H-175
10
9
3
4
12
11
H-174
2 BLK
2 BLK/ORN
0.5 BLU/WHT
0.5 BLU/WHT
1
J-162
Resistor
2
J-162
0.5 BLU
0.5 BLU
A
0.5 BLU
B
0.5 BLU/WHT
2 BLK/ORN
2 BLK
0.5 BLU/WHT
0.5 BLU
5
4
H-173
2 BLK
2 BLK/ORN
G
2 BLK/ORN
6
7
H-173
C
D
W/S-1
0.5 BLU/WHT
0.5 BLU
2 BLK
2 BLK
2 BLK
5 BLK
2 BLK
14
15
1
3
4
J-144
CAN High
CAN Low
Power Ground
Power Ground
Power Ground
Diesel Exhaust Fluid (DEF) Control Module
Refer to Ground Distribution
Refer to Ground Distribution
J-141
J-142
LNWG80XF012801

4502485

Description and Operation

Exterior Lights Circuit Description

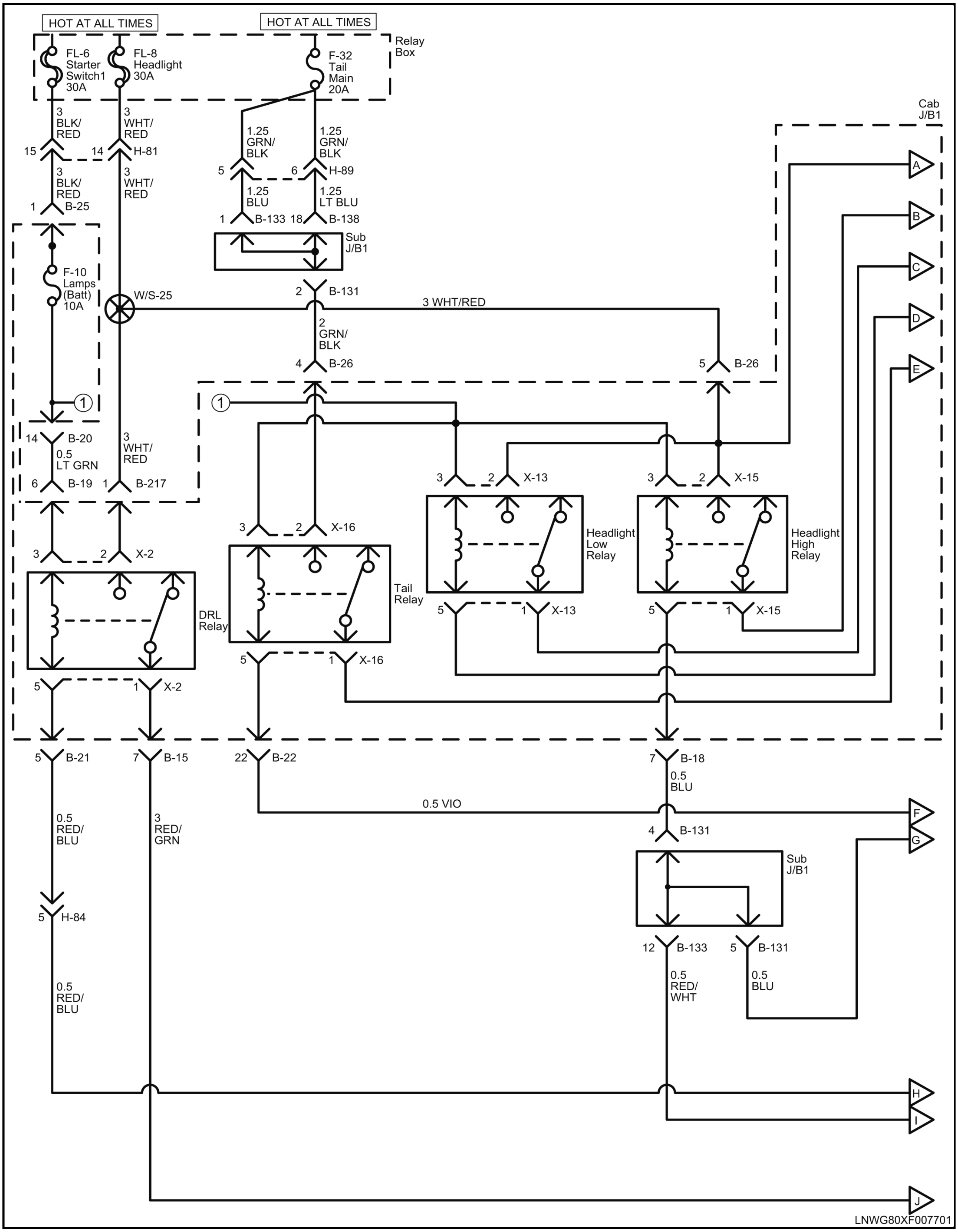
The circuit consists of lights (headlight, side marker light, clearance light, parking light, turn signal light [front, side and rear], cornering light, identification light, stoplight, taillight, backup light and license plate light), switches (ignition switch, combination switch, hazard warning switch, illumination control switch, brake switch, backup light switch and inhibitor switch), relays and other units.

The circuit has the DRL (Daytime Running Light) function. The DRL unit lights up the headlight automatically when the engine is running and the parking brake is released. When the lighting switch is turned to the headlight ON position, the DRL unit turns OFF the headlight.

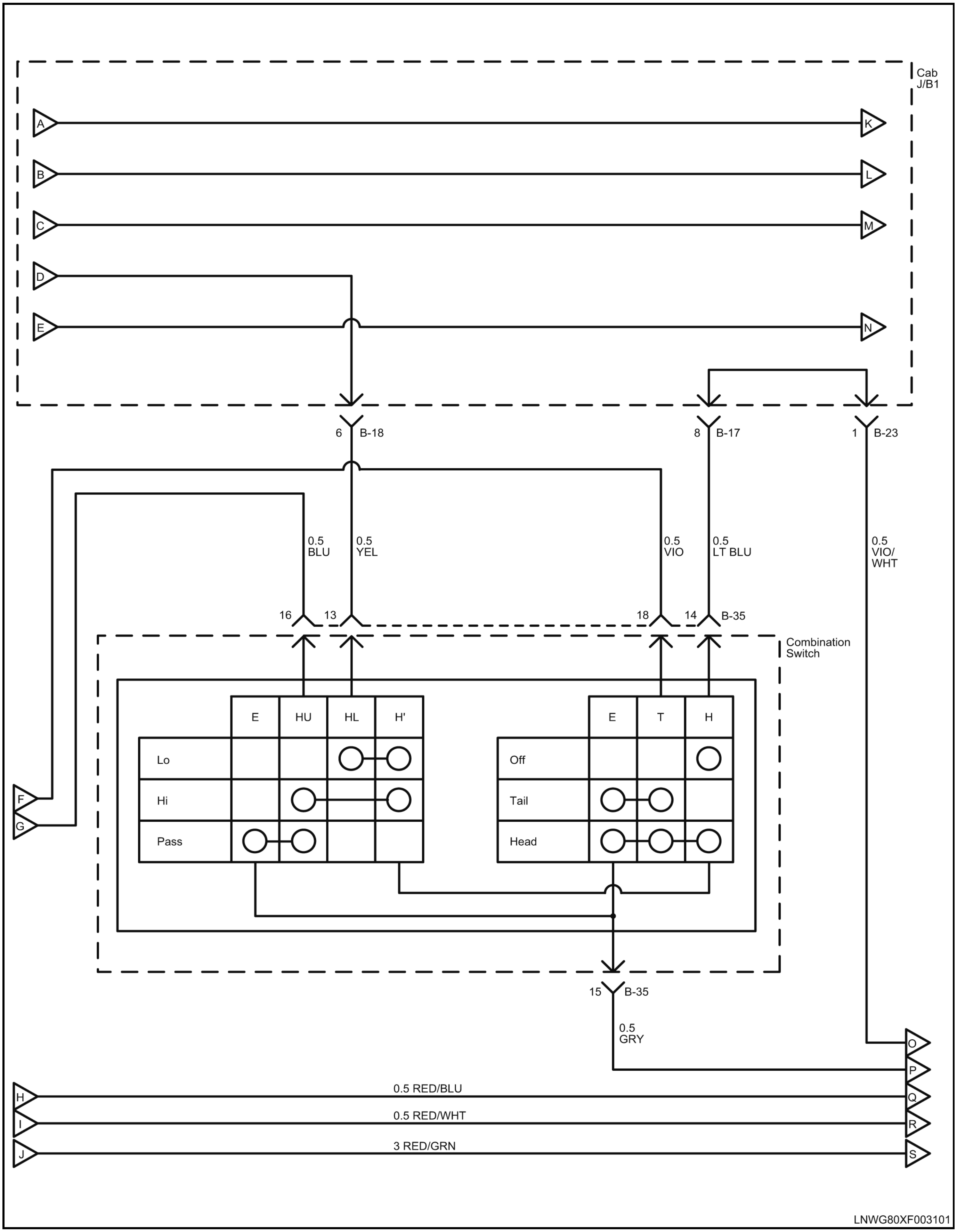
The combination switch consists of the lighting switch, the dimmer switch and the turn signal switch. The each of lights are operated by the combination switch or other switches.

Schematic and Routing Diagrams

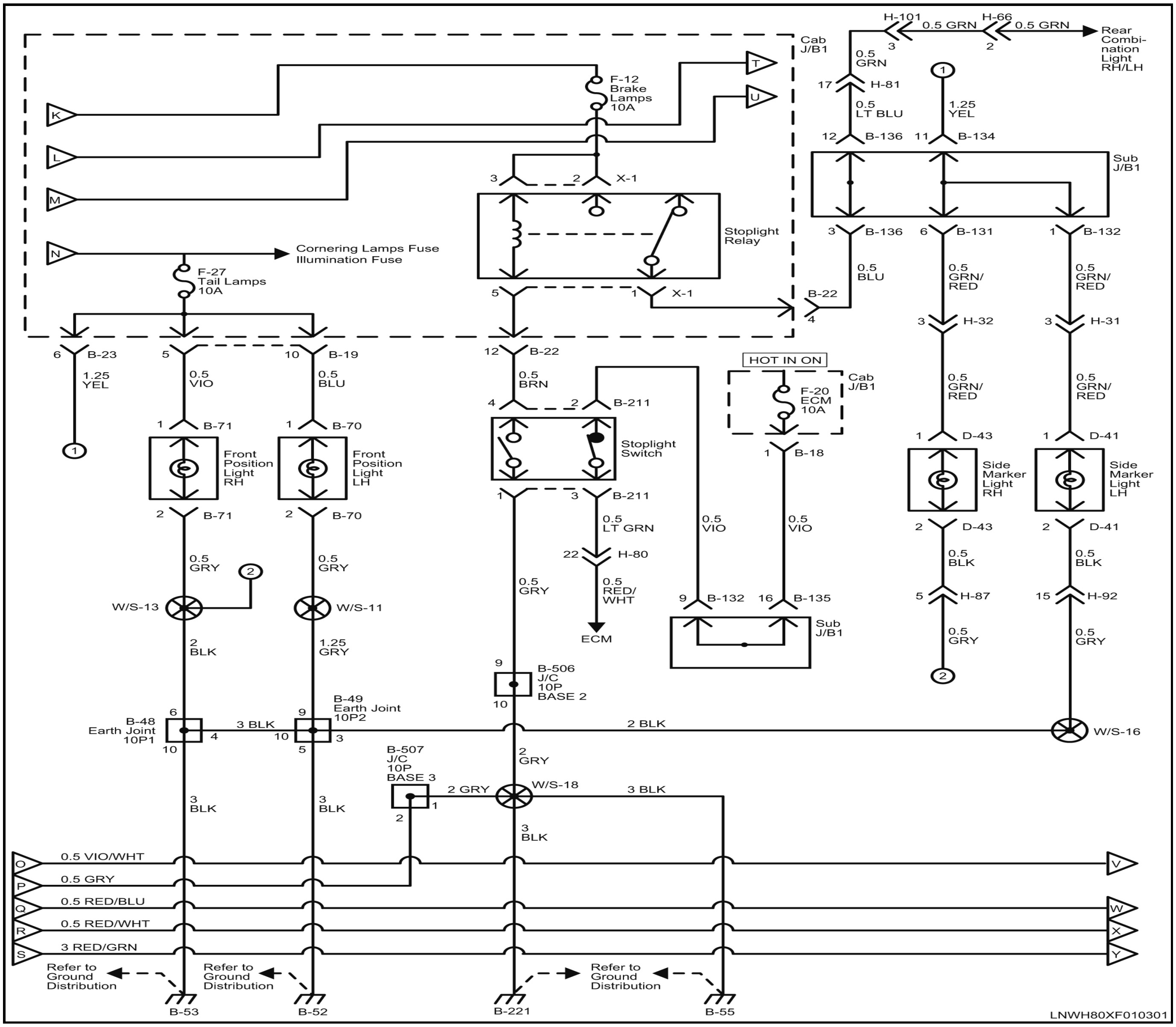
Exterior Lights Schematics


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-6
Starter
Switch1
30A
FL-8
Headlight
30A
F-32
Tail
Main
20A
Relay
Box
Cab
J/B1
3
BLK/
RED
3
WHT/
RED
15
14
H-81
1.25
GRN/
BLK
1.25
GRN/
BLK
5
6
H-89
3
BLK/
RED
3
WHT/
RED
1.25
BLU
1.25
LT BLU
1
B-25
1
B-133
18
B-138
Sub
J/B1
F-10
Lamps
(Batt)
10A
W/S-25
2
B-131
3 WHT/RED
2
GRN/
BLK
4
B-26
5
B-26
A
B
C
D
E
①
①
14
B-20
0.5
LT GRN
3
WHT/
RED
6
B-19
1
B-217
3
2
X-13
3
2
X-15
3
2
X-16
Headlight
Low
Relay
Headlight
High
Relay
3
2
X-2
Tail
Relay
DRL
Relay
5
1
X-13
5
1
X-15
5
1
X-16
5
1
X-2
5
B-21
7
B-15
22
B-22
7
B-18
0.5
BLU
0.5 VIO
F
G
0.5
RED/
BLU
3
RED/
GRN
4
B-131
Sub
J/B1
5
H-84
12
B-133
5
B-131
0.5
RED/
BLU
0.5
RED/
WHT
0.5
BLU
H
I
J
LNWG80XF007701

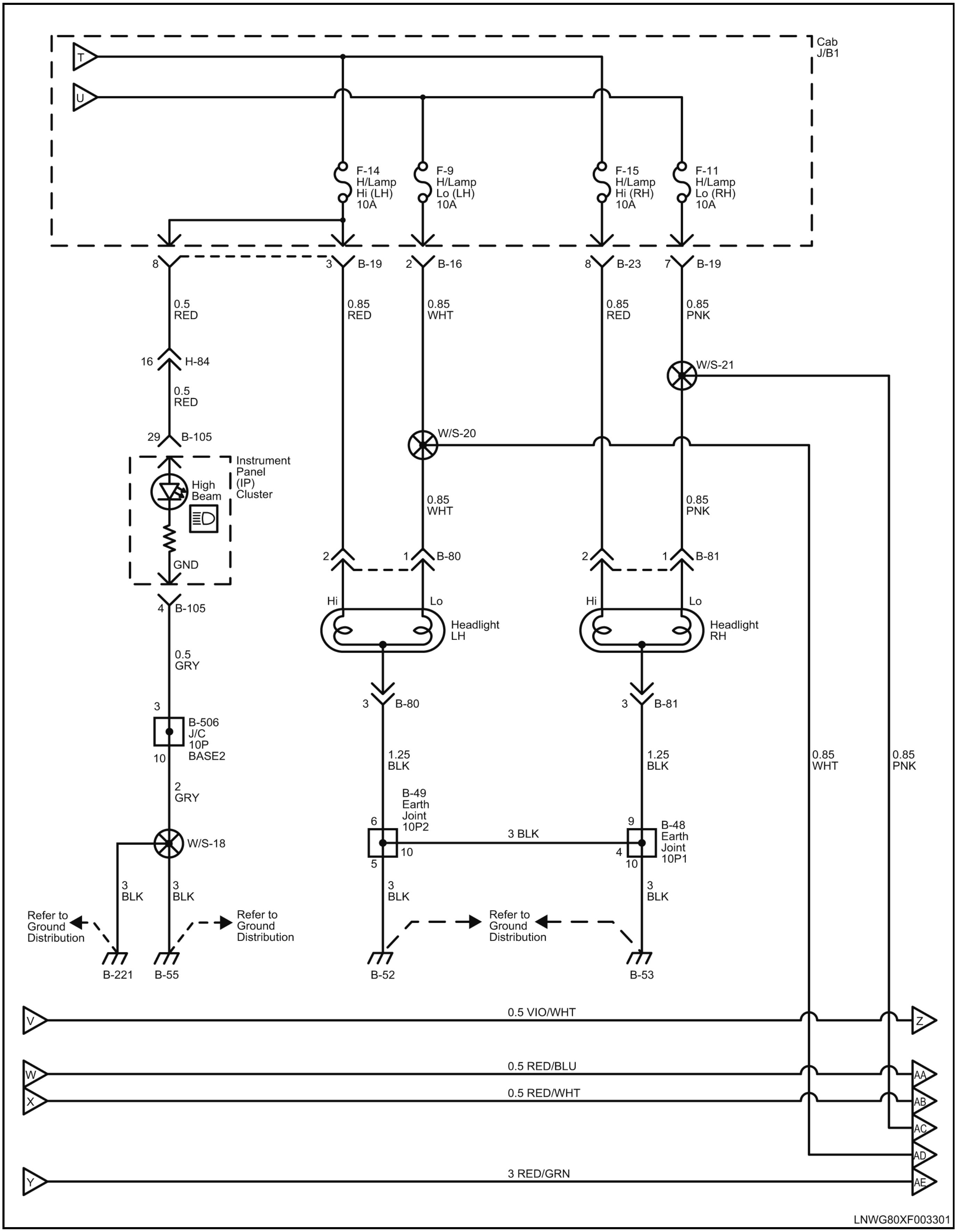
4496366


Cab
J/B1
A
B
C
D
E
K
L
M
N
6
B-18
8
B-17
1
B-23
0.5
BLU
0.5
YEL
0.5
VIO
0.5
LT BLU
0.5
VIO/
WHT
16
13
18
14
B-35
Combination
Switch
E
HU
HL
H'
Lo
Hi
Pass
E
T
H
Off
Tail
Head
F
G
15
B-35
0.5
GRY
O
P
Q
R
S
H
I
J
0.5 RED/BLU
0.5 RED/WHT
3 RED/GRN
LNWG80XF003101

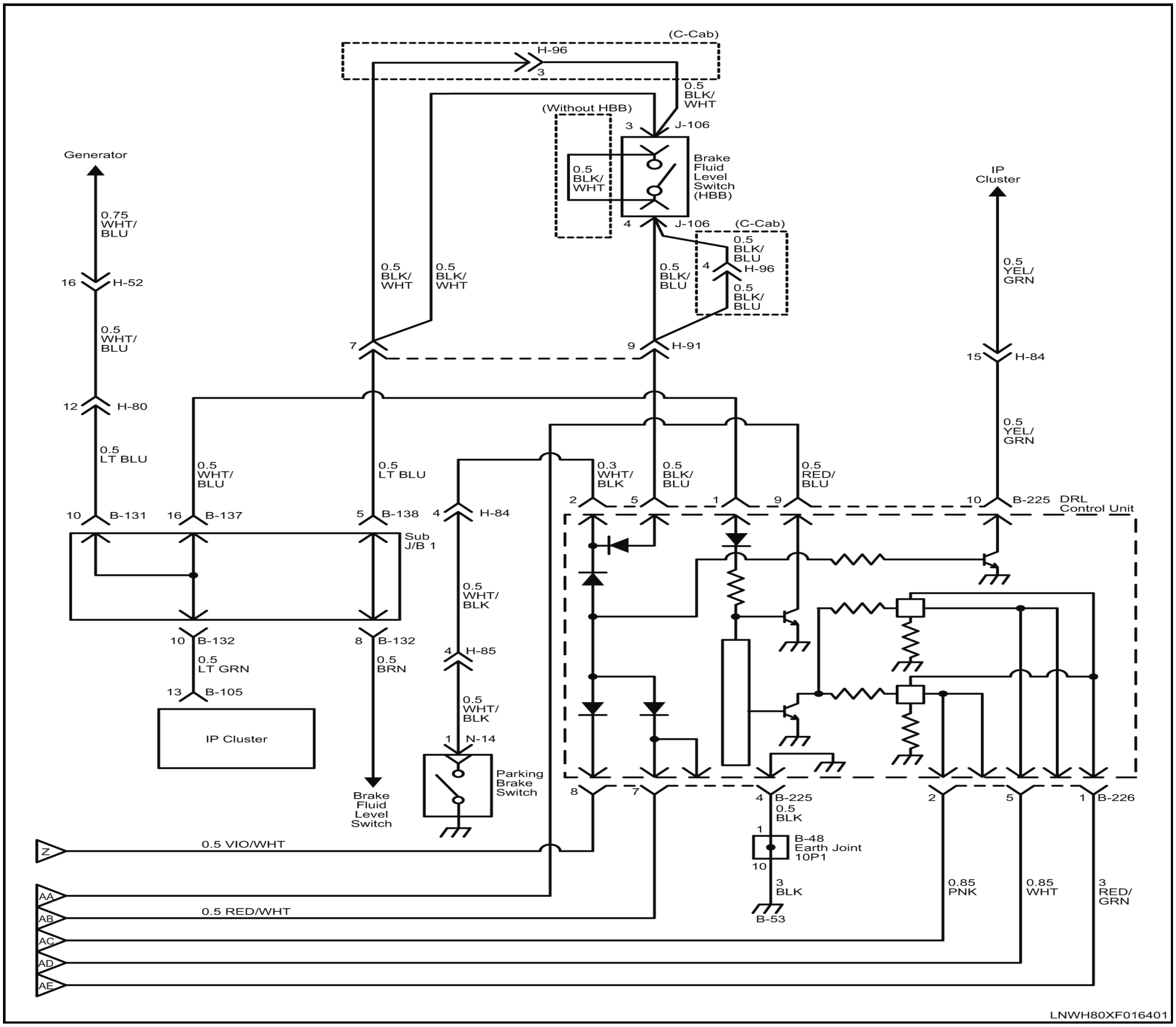
4496368


H-101
0.5 GRN
H-66
0.5 GRN
3
2
Rear Combi-nation Light RH/LH
Cab J/B1
0.5 GRN
1
17
H-81
0.5 LT BLU
1.25 YEL
12
B-136
11
B-134
Sub J/B1
3
B-136
6
B-131
1
B-132
0.5 BLU
0.5 GRN/ RED
0.5 GRN/ RED
B-22
4
3
H-32
3
H-31
F-12 Brake Lamps 10A
T
U
K
L
M
3
2
X-1
Stoplight Relay
N
Cornering Lamps Fuse Illumination Fuse
F-27 Tail Lamps 10A
5
1
X-1
6
B-23
5
10
B-19
12
B-22
1.25 YEL
0.5 VIO
0.5 BLU
0.5 BRN
4
2
B-211
HOT IN ON
F-20 ECM 10A
Cab J/B1
0.5 GRN/ RED
0.5 GRN/ RED
1
B-71
1
B-70
Front Position Light RH
Front Position Light LH
Stoplight Switch
1
B-18
1
D-43
1
D-41
Side Marker Light RH
Side Marker Light LH
1
2
B-71
2
B-70
1
3
B-211
2
D-43
2
D-41
0.5 LT GRN
0.5 VIO
0.5 VIO
0.5 GRY
2
0.5 GRY
22
H-80
0.5 BLK
0.5 BLK
0.5 GRY
0.5 RED/ WHT
9
B-132
16
B-135
5
H-87
15
H-92
W/S-13
W/S-11
ECM
Sub J/B1
2 BLK
1.25 GRY
0.5 GRY
0.5 GRY
2
9
B-506 J/C 10P BASE 2
10
B-49 Earth Joint 10P2
6
9
B-48 Earth Joint 10P1
3 BLK
4
10
3
2 BLK
W/S-16
10
5
B-507 J/C 10P BASE 3
2 GRY
2 GRY
W/S-18
3 BLK
1
2
3 BLK
3 BLK
3 BLK
O
0.5 VIO/WHT
P
0.5 GRY
Q
0.5 RED/BLU
R
0.5 RED/WHT
S
3 RED/GRN
V
W
X
Y
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-53
B-52
B-221
B-55
LNWH80XF010301

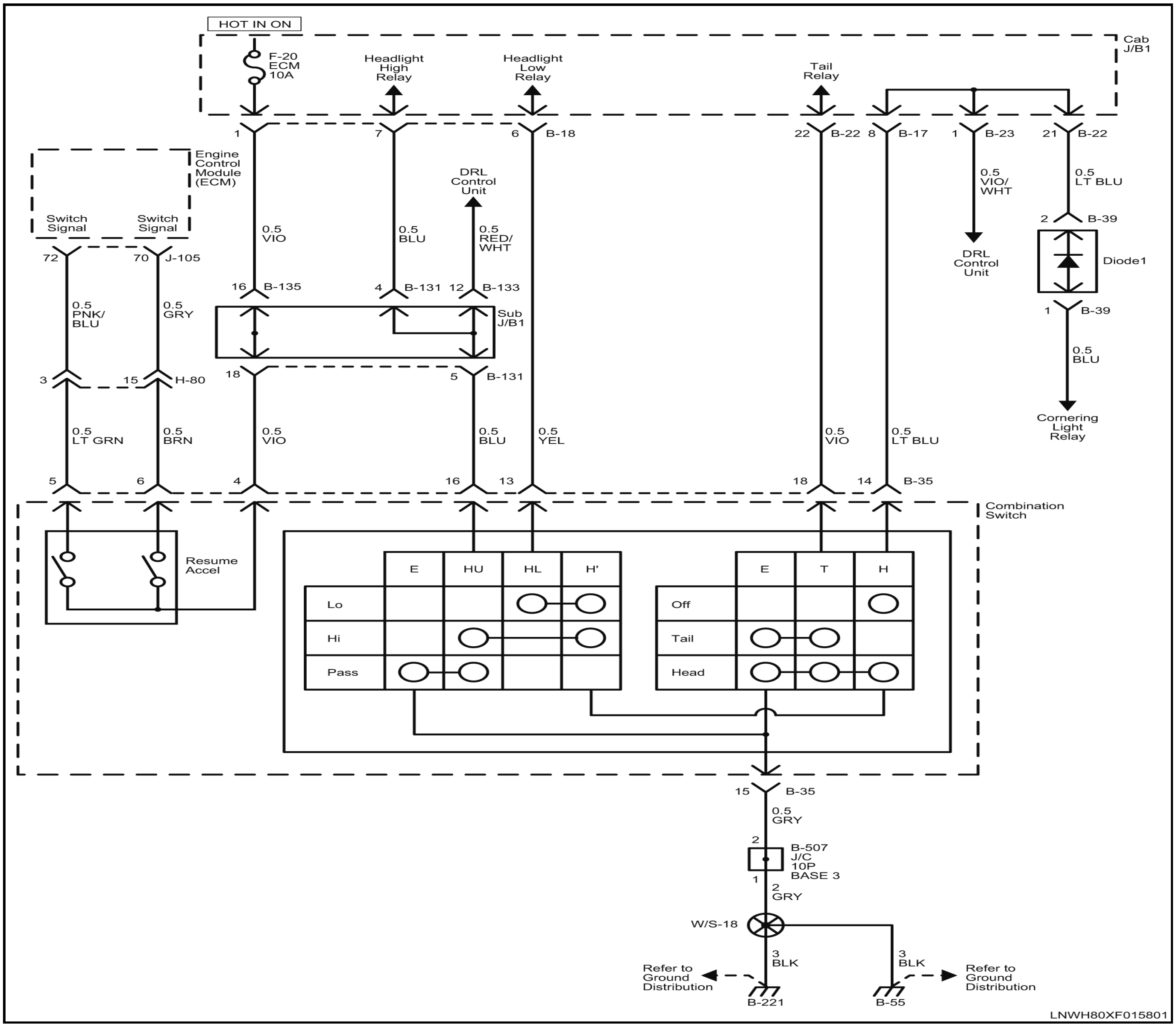
4709979


Cab J/B1
T
U
F-14 H/Lamp Hi (LH) 10A
F-9 H/Lamp Lo (LH) 10A
F-15 H/Lamp Hi (RH) 10A
F-11 H/Lamp Lo (RH) 10A
8
3 B-19
2 B-16
8 B-23
7 B-19
0.5 RED
0.85 RED
0.85 WHT
0.85 RED
0.85 PNK
16 H-84
0.5 RED
W/S-21
29 B-105
W/S-20
Instrument Panel (IP) Cluster
High Beam
GND
0.85 WHT
0.85 PNK
2
1 B-80
2
1 B-81
Hi
Lo
Headlight LH
Hi
Lo
Headlight RH
4 B-105
0.5 GRY
3 B-80
3 B-81
3
B-506 J/C 10P BASE2
10
1.25 BLK
1.25 BLK
0.85 WHT
0.85 PNK
2 GRY
B-49 Earth Joint 10P2
6
3 BLK
9
B-48 Earth Joint 10P1
W/S-18
5
10
4
10
3 BLK
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-221
B-55
B-52
B-53
V
0.5 VIO/WHT
Z
W
0.5 RED/BLU
AA
X
0.5 RED/WHT
AB
AC
AD
Y
3 RED/GRN
AE
LNWG80XF003301

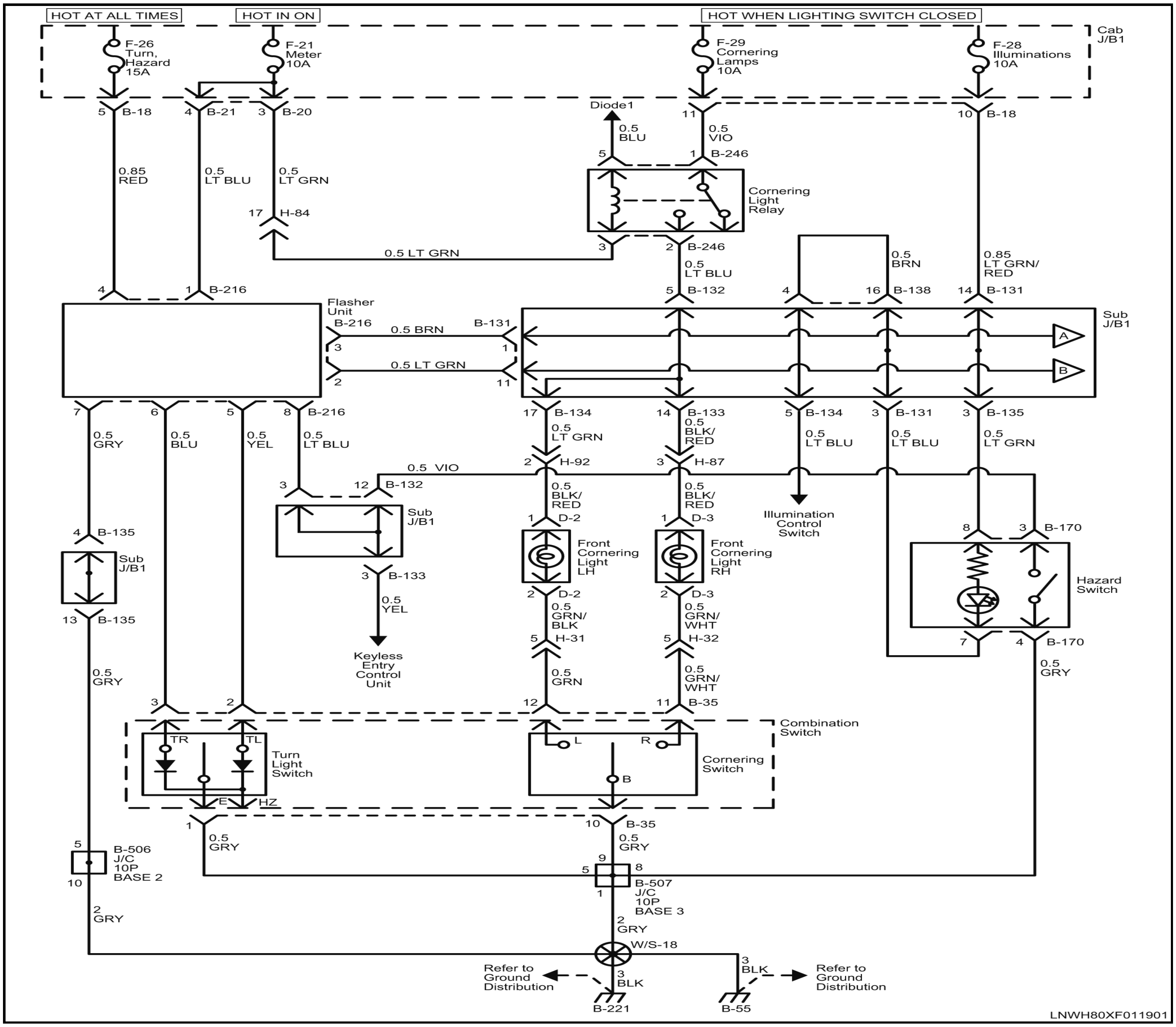
4496373


(C-Cab)
H-96
3
0.5 BLK/ WHT
(Without HBB)
3
J-106
0.5 BLK/ WHT
Brake Fluid Level Switch (HBB)
4
J-106
(C-Cab)
0.5 BLK/ BLU
4
H-96
0.5 BLK/ BLU
Generator
0.75 WHT/ BLU
16
H-52
0.5 WHT/ BLU
0.5 BLK/ WHT
0.5 BLK/ WHT
0.5 BLK/ BLU
IP Cluster
0.5 YEL/ GRN
7
9
H-91
15
H-84
12
H-80
0.5 LT BLU
0.5 WHT/ BLU
0.5 LT BLU
0.3 WHT/ BLK
0.5 BLK/ BLU
0.5 RED/ BLU
0.5 YEL/ GRN
10
B-131
16
B-137
5
B-138
4
H-84
2
5
1
9
10
B-225
DRL Control Unit
Sub J/B 1
0.5 WHT/ BLK
10
B-132
8
B-132
4
H-85
0.5 LT GRN
0.5 BRN
13
B-105
0.5 WHT/ BLK
1
N-14
IP Cluster
Parking Brake Switch
Brake Fluid Level Switch
8
7
4
B-225
2
5
1
B-226
0.5 BLK
1
B-48 Earth Joint 10P1
10
3 BLK
B-53
Z
0.5 VIO/WHT
AA
AB
0.5 RED/WHT
AC
AD
AE
0.85 PNK
0.85 WHT
3 RED/ GRN
LNWH80XF016401

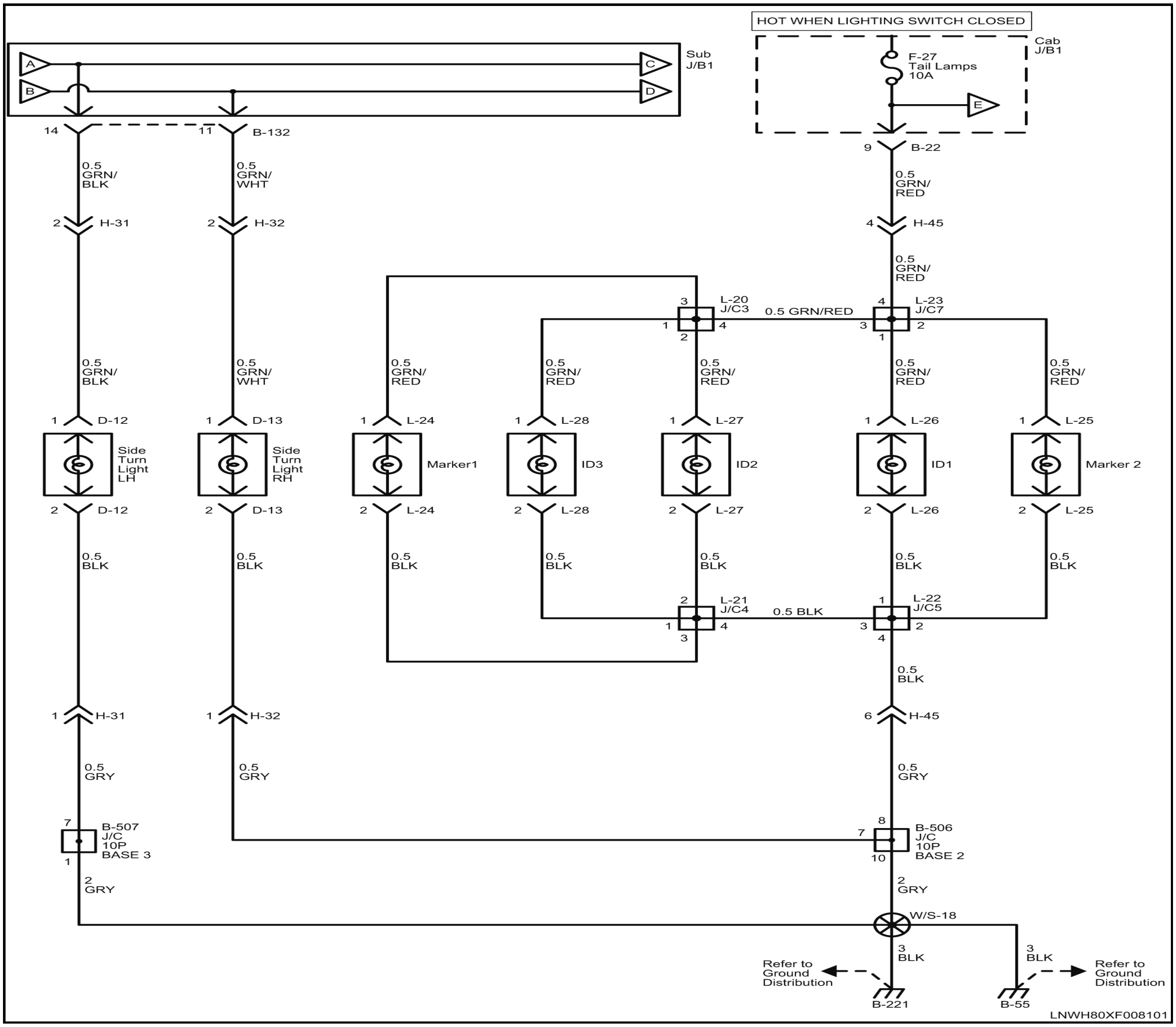
4709988


HOT IN ON
F-20
ECM
10A
Headlight
High
Relay
Headlight
Low
Relay
Tail
Relay
Cab
J/B1
1
7
6
B-18
22
B-22
8
B-17
1
B-23
21
B-22
Engine
Control
Module
(ECM)
Switch
Signal
Switch
Signal
72
70
J-105
DRL
Control
Unit
0.5
VIO
0.5
BLU
0.5
RED/
WHT
0.5
VIO/
WHT
0.5
LT BLU
2
B-39
Diode1
DRL
Control
Unit
1
B-39
0.5
BLU
Cornering
Light
Relay
0.5
PNK/
BLU
0.5
GRY
16
B-135
4
B-131
12
B-133
Sub
J/B1
18
5
B-131
3
15
H-80
0.5
LT GRN
0.5
BRN
0.5
VIO
0.5
BLU
0.5
YEL
0.5
VIO
0.5
LT BLU
5
6
4
16
13
18
14
B-35
Combination
Switch
Resume
Accel
E
HU
HL
H'
Lo
Hi
Pass
E
T
H
Off
Tail
Head
15
B-35
0.5
GRY
2
B-507
J/C
10P
BASE 3
1
2
GRY
W/S-18
3
BLK
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-221
B-55
LNWH80XF015801

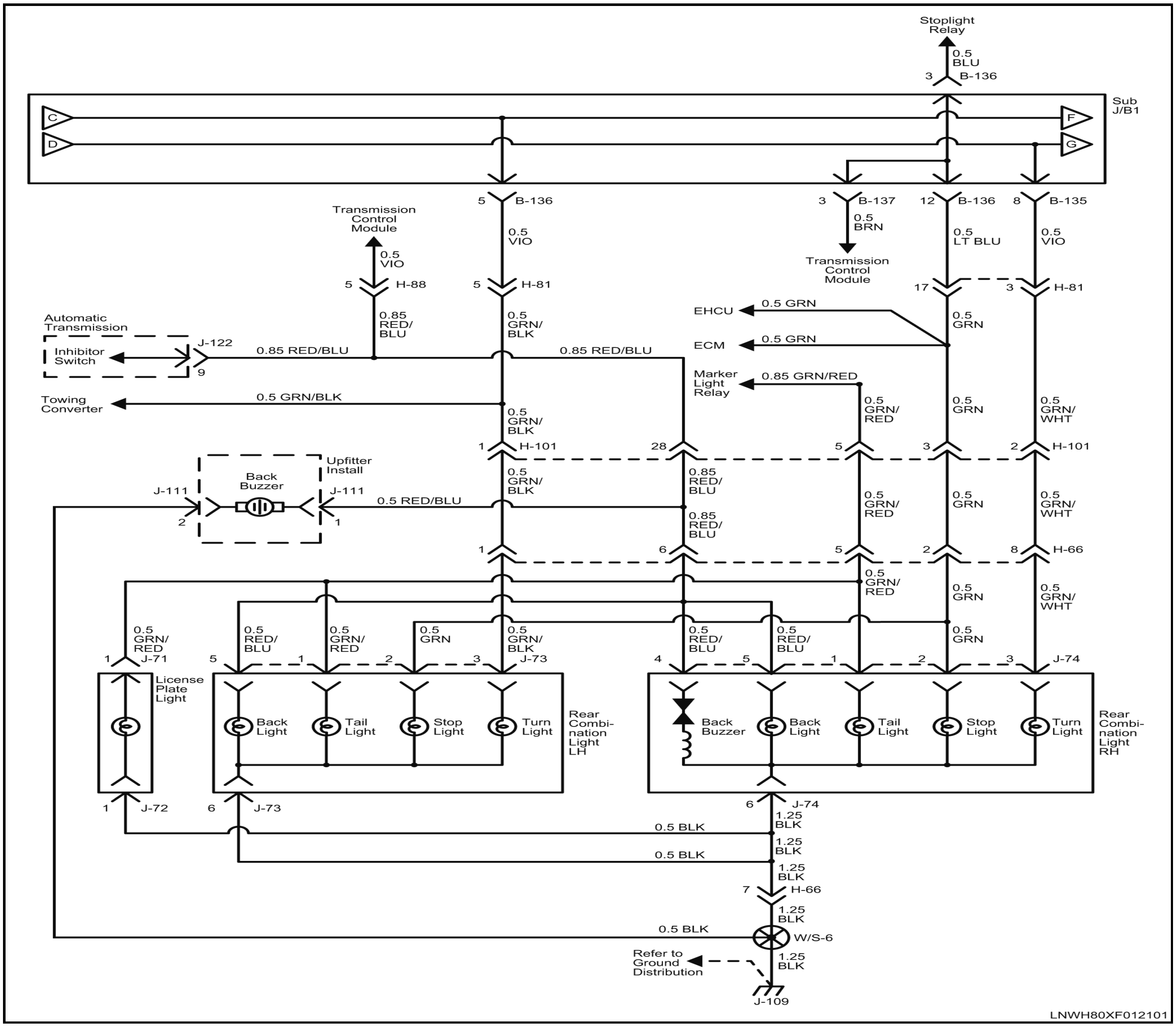
4709992


HOT AT ALL TIMES
HOT IN ON
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-26 Turn, Hazard 15A
F-21 Meter 10A
F-29 Cornering Lamps 10A
F-28 Illuminations 10A
5 B-18
4 B-21
3 B-20
Diode1
11
10 B-18
0.5 BLU
0.5 VIO
5
1 B-246
0.85 RED
0.5 LT BLU
0.5 LT GRN
Cornering Light Relay
17 H-84
0.5 LT GRN
3
2 B-246
0.5 BRN
0.85 LT GRN/ RED
0.5 LT BLU
4
1 B-216
5 B-132
4
16 B-138
14 B-131
Flasher Unit
B-216
B-131
0.5 BRN
3
1
0.5 LT GRN
2
11
Sub J/B1
A
B
7
6
5
8 B-216
17 B-134
14 B-133
5 B-134
3 B-131
3 B-135
0.5 GRY
0.5 BLU
0.5 YEL
0.5 LT BLU
0.5 LT GRN
0.5 BLK/ RED
0.5 LT BLU
0.5 LT BLU
0.5 LT GRN
2 H-92
3 H-87
0.5 VIO
3
12 B-132
0.5 BLK/ RED
0.5 BLK/ RED
Sub J/B1
Illumination Control Switch
4 B-135
1 D-2
1 D-3
8
3 B-170
Sub J/B1
Front Cornering Light LH
Front Cornering Light RH
Hazard Switch
3 B-133
0.5 YEL
2 D-2
2 D-3
0.5 GRN/ BLK
0.5 GRN/ WHT
13 B-135
5 H-31
5 H-32
7
4 B-170
Keyless Entry Control Unit
0.5 GRY
0.5 GRN
0.5 GRN/ WHT
0.5 GRY
3
2
12
11 B-35
Combination Switch
TR
TL
L
R
Turn Light Switch
Cornering Switch
B
E
HZ
1
10 B-35
0.5 GRY
0.5 GRY
5
B-506 J/C 10P BASE 2
10
9
8
5
1
B-507 J/C 10P BASE 3
2 GRY
2 GRY
W/S-18
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
B-221
B-55
LNWH80XF011901

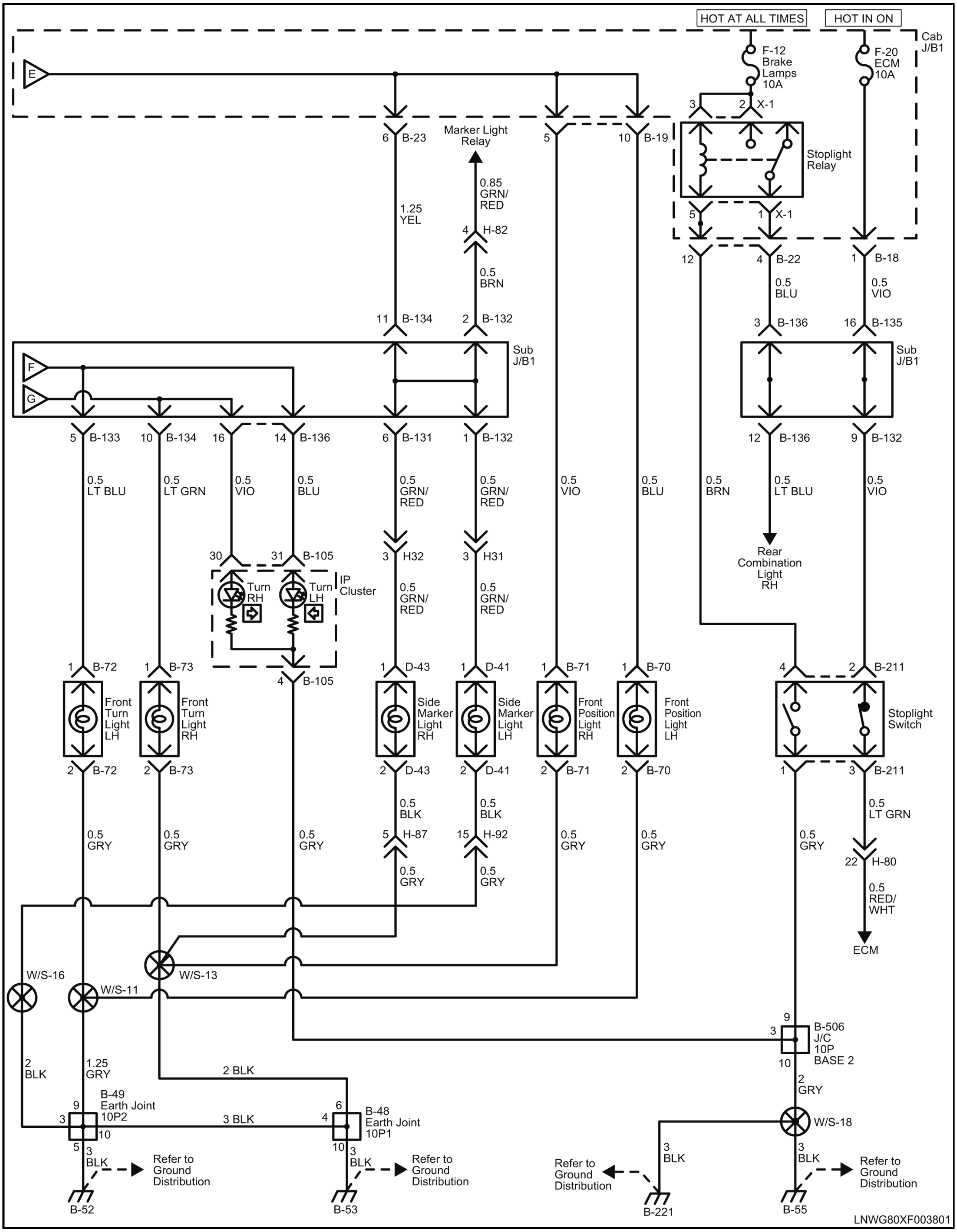
4709996


HOT WHEN LIGHTING SWITCH CLOSED
A
B
C
D
Sub J/B1
Cab J/B1
F-27 Tail Lamps 10A
E
14
11
B-132
9 B-22
0.5 GRN/BLK
0.5 GRN/WHT
0.5 GRN/RED
2 H-31
2 H-32
4 H-45
3 L-20 J/C3
1
2
4
0.5 GRN/RED
4 L-23 J/C7
3
1
2
1 D-12
1 D-13
1 L-24
1 L-28
1 L-27
1 L-26
1 L-25
Side Turn Light LH
Side Turn Light RH
Marker1
ID3
ID2
ID1
Marker 2
2 D-12
2 D-13
2 L-24
2 L-28
2 L-27
2 L-26
2 L-25
0.5 BLK
2 L-21 J/C4
1
3
4
0.5 BLK
1 L-22 J/C5
3
4
2
1 H-31
1 H-32
6 H-45
0.5 GRY
7 B-507 J/C 10P BASE 3
1
8 B-506 J/C 10P BASE 2
7
10
2 GRY
W/S-18
3 BLK
Refer to Ground Distribution
B-221
B-55
LNWH80XF008101

4710004


Stoplight Relay
0.5 BLU
3 B-136
Sub J/B1
C
D
F
G
5 B-136
3 B-137
12 B-136
8 B-135
Transmission Control Module
0.5 VIO
0.5 VIO
0.5 BRN
0.5 LT BLU
0.5 VIO
Transmission Control Module
5 H-88
5 H-81
17
3 H-81
Automatic Transmission
Inhibitor Switch
J-122
9
0.85 RED/BLU
0.85 RED/BLU
0.5 GRN/BLK
EHCU
0.5 GRN
ECM
0.5 GRN
0.5 GRN
Marker Light Relay
0.85 GRN/RED
Towing Converter
0.5 GRN/BLK
0.5 GRN/BLK
0.5 GRN/RED
0.5 GRN
0.5 GRN/WHT
1 H-101
28
5
3
2 H-101
Upfitter Install
Back Buzzer
J-111
2
J-111
1
0.5 RED/BLU
0.5 GRN/BLK
0.85 RED/BLU
0.85 RED/BLU
0.5 GRN/RED
0.5 GRN
0.5 GRN/WHT
1
6
5
2
8 H-66
0.5 GRN/RED
0.5 GRN
0.5 GRN/WHT
0.5 GRN/RED
0.5 RED/BLU
0.5 GRN/RED
0.5 GRN
0.5 GRN/BLK
0.5 RED/BLU
0.5 RED/BLU
0.5 GRN
1 J-71
5
1
2
3 J-73
4
5
1
2
3 J-74
License Plate Light
Back Light
Tail Light
Stop Light
Turn Light
Rear Combination Light LH
Back Buzzer
Back Light
Tail Light
Stop Light
Turn Light
Rear Combination Light RH
1 J-72
6 J-73
6 J-74
1.25 BLK
0.5 BLK
1.25 BLK
0.5 BLK
1.25 BLK
7 H-66
1.25 BLK
0.5 BLK
W/S-6
Refer to Ground Distribution
1.25 BLK
J-109
LNWH80XF012101

4710015


HOT AT ALL TIMES
HOT IN ON
Cab J/B1
F-12 Brake Lamps 10A
F-20 ECM 10A
E
3
2 X-1
Stoplight Relay
5
1 X-1
6 B-23
Marker Light Relay
5
10 B-19
0.85 GRN/ RED
1.25 YEL
4 H-82
0.5 BRN
12
4 B-22
1 B-18
0.5 BLU
0.5 VIO
11 B-134
2 B-132
3 B-136
16 B-135
Sub J/B1
F
G
Sub J/B1
5 B-133
10 B-134
16
14 B-136
6 B-131
1 B-132
12 B-136
9 B-132
0.5 LT BLU
0.5 LT GRN
0.5 VIO
0.5 BLU
0.5 GRN/ RED
0.5 GRN/ RED
0.5 VIO
0.5 BLU
0.5 BRN
0.5 LT BLU
0.5 VIO
30
31 B-105
IP Cluster
Turn RH
Turn LH
3 H32
3 H31
Rear Combination Light RH
0.5 GRN/ RED
0.5 GRN/ RED
1 B-72
1 B-73
4 B-105
1 D-43
1 D-41
1 B-71
1 B-70
4
2 B-211
Front Turn Light LH
Front Turn Light RH
Side Marker Light RH
Side Marker Light LH
Front Position Light RH
Front Position Light LH
Stoplight Switch
2 B-72
2 B-73
2 D-43
2 D-41
2 B-71
2 B-70
1
3 B-211
0.5 BLK
0.5 BLK
0.5 LT GRN
0.5 GRY
0.5 GRY
0.5 GRY
5 H-87
15 H-92
0.5 GRY
0.5 GRY
0.5 GRY
22 H-80
0.5 GRY
0.5 GRY
0.5 RED/ WHT
ECM
W/S-16
W/S-11
W/S-13
9
3
B-506 J/C 10P BASE 2
10
2 GRY
2 BLK
1.25 GRY
2 BLK
B-49 Earth Joint 10P2
9
3
10
5
3 BLK
6
4
B-48 Earth Joint 10P1
10
W/S-18
3 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
B-52
B-53
B-221
B-55
LNWG80XF003801

4496394

Description and Operation

Interior Lights Circuit Description

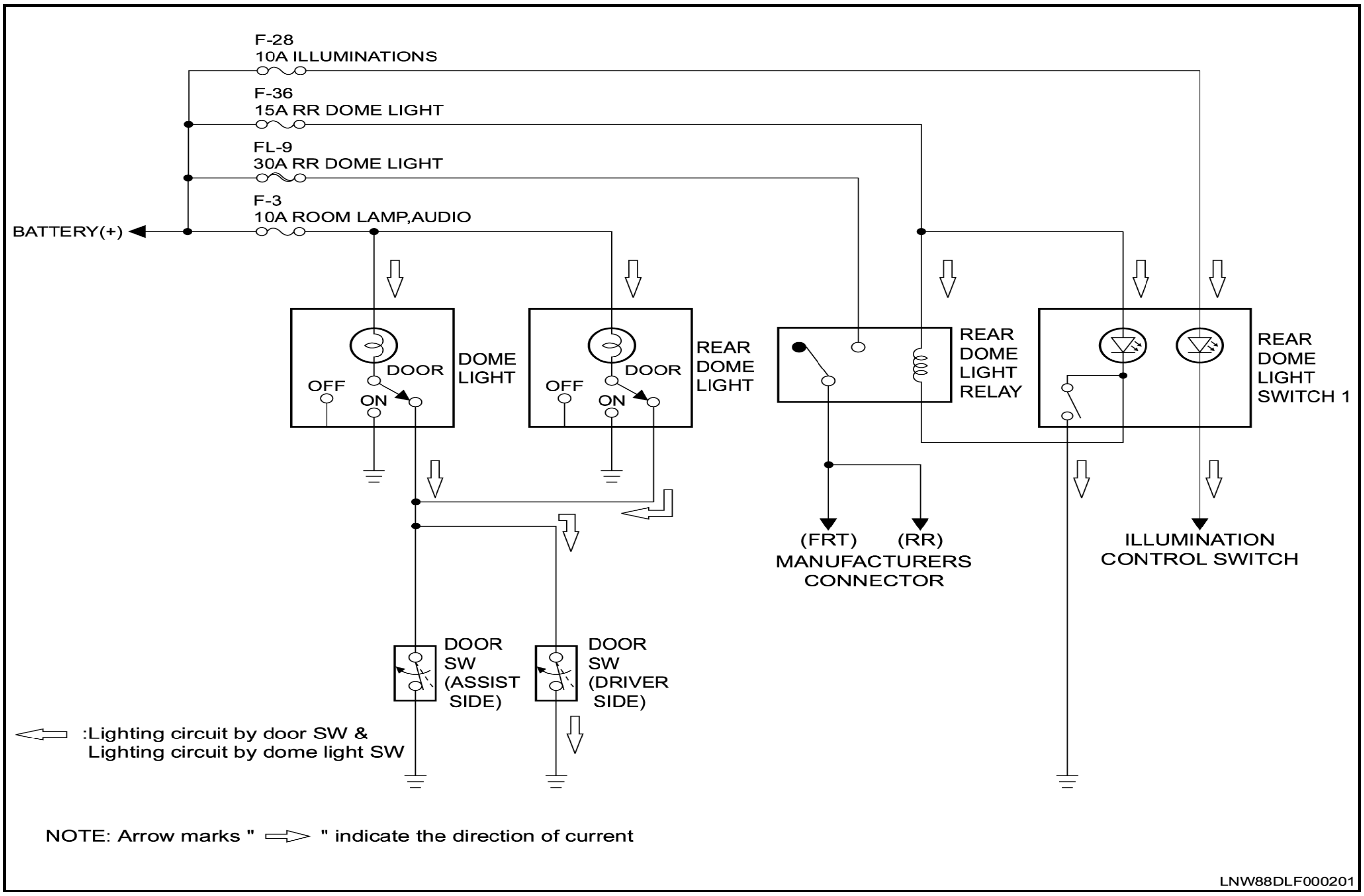
The circuit consists of the dome light, dome light switch, door switch.

The dome light lights up when the door is opened with the switch set at the door mode. It can be lit by operating ON or OFF of the dome light switch.

The dome light can be lit by respective switch independent of the position of the ignition switch.

By operating the dome light switch fitted on the instrument panel, the dome light can be lit independent of the switch position of dome light.

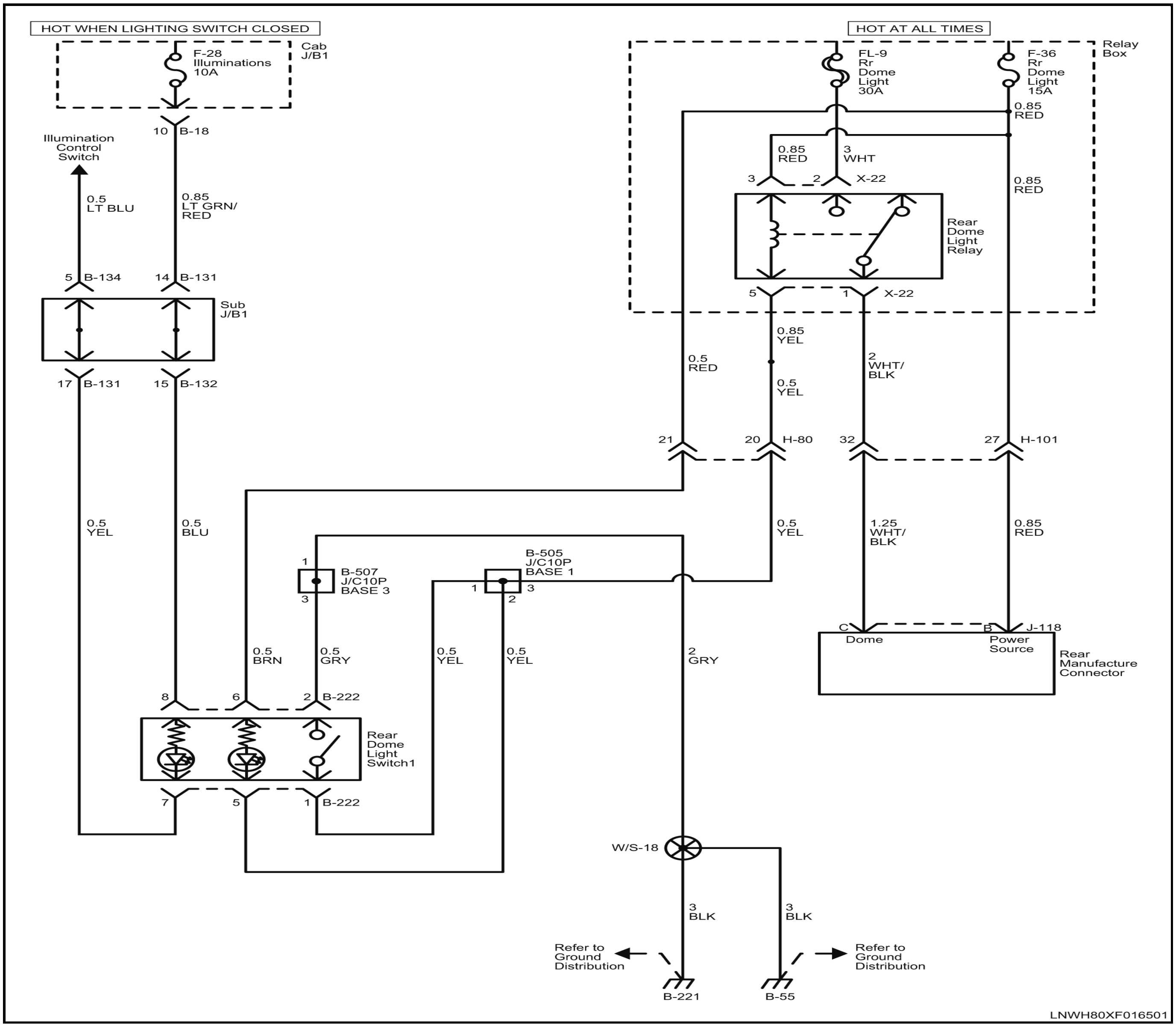
LIGHTING CIRCUIT


F-28
10A ILLUMINATIONS
F-36
15A RR DOME LIGHT
FL-9
30A RR DOME LIGHT
F-3
10A ROOM LAMP,AUDIO
BATTERY(+)
DOOR
OFF
ON
DOME LIGHT
DOOR
OFF
ON
REAR DOME LIGHT
REAR DOME LIGHT RELAY
REAR DOME LIGHT SWITCH 1
(FRT) (RR)
MANUFACTURERS CONNECTOR
ILLUMINATION CONTROL SWITCH
DOOR SW (ASSIST SIDE)
DOOR SW (DRIVER SIDE)
:Lighting circuit by door SW & Lighting circuit by dome light SW
NOTE: Arrow marks " ⇨ " indicate the direction of current
LNW88DLF000201

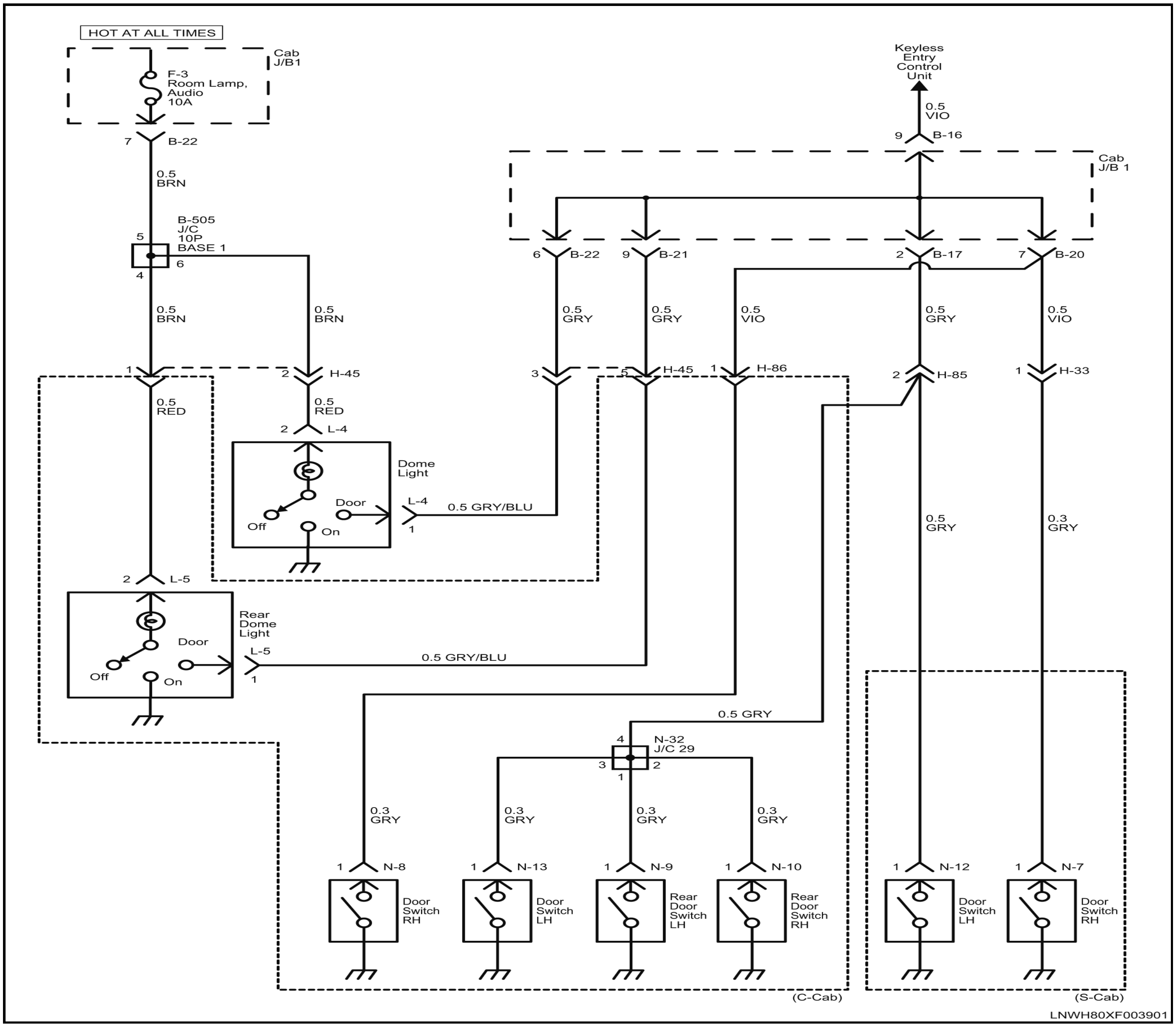
4502664

Schematic and Routing Diagrams

Interior Lights Schematics


HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-28 Illuminations 10A
10 B-18
Illumination Control Switch
0.5 LT BLU
0.85 LT GRN/ RED
5 B-134
14 B-131
Sub J/B1
17 B-131
15 B-132
0.5 YEL
0.5 BLU
HOT AT ALL TIMES
Relay Box
FL-9 Rr Dome Light 30A
F-36 Rr Dome Light 15A
0.85 RED
0.85 RED
3 WHT
3
2
X-22
0.85 RED
Rear Dome Light Relay
5
1
X-22
0.85 YEL
0.5 RED
0.5 YEL
2 WHT/ BLK
21
20
H-80
32
27
H-101
0.5 YEL
1.25 WHT/ BLK
0.85 RED
1
B-507 J/C10P BASE 3
3
B-505 J/C10P BASE 1
1
2
3
C
Dome
B
Power Source
J-118
Rear Manufacture Connector
0.5 BRN
0.5 GRY
0.5 YEL
0.5 YEL
2 GRY
8
6
2
B-222
Rear Dome Light Switch1
7
5
1
B-222
W/S-18
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-221
B-55
LNWH80XF016501

4710037


HOT AT ALL TIMES
Cab J/B1
F-3 Room Lamp, Audio 10A
7 B-22
0.5 BRN
B-505 J/C 10P BASE 1
5
4
6
0.5 BRN
0.5 BRN
1
2 H-45
0.5 RED
0.5 RED
2 L-4
Dome Light
Door
Off
On
L-4
1
0.5 GRY/BLU
2 L-5
Rear Dome Light
Door
Off
On
L-5
1
0.5 GRY/BLU
Keyless Entry Control Unit
0.5 VIO
9 B-16
Cab J/B 1
6 B-22
9 B-21
2 B-17
7 B-20
0.5 GRY
0.5 GRY
0.5 VIO
0.5 GRY
0.5 VIO
3
5 H-45
1 H-86
2 H-85
1 H-33
0.5 GRY
0.3 GRY
0.5 GRY
4 N-32 J/C 29
3
1
2
0.3 GRY
0.3 GRY
0.3 GRY
0.3 GRY
1 N-8
1 N-13
1 N-9
1 N-10
1 N-12
1 N-7
Door Switch RH
Door Switch LH
Rear Door Switch LH
Rear Door Switch RH
Door Switch LH
Door Switch RH
(C-Cab)
(S-Cab)
LNWH80XF003901

4710052

Description and Operation

Wiper/Washer System Circuit Description

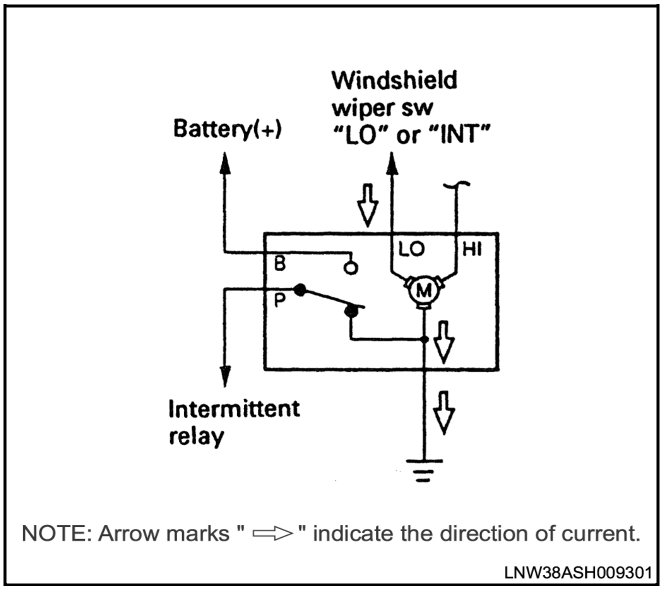
The circuit consists of the ignition switch, windshield wiper and washer switch, wiper motor, washer motor the intermittent relay horn switch and horn.

When the wiper and washer switch is turned on with starter switch on, the battery voltage is applied to the wiper motor to activate the wiper.

The washer motor squirts glass cleaning fluid while the washer switch is being pushed. The intermittent relay is used to control motion of the wiper.

Operation of Windshield Wiper Motor (When Wiper “LO” or “INT” Position)

1. Condition of wiper switch is “LO” or “INT” position (Wiper motor is starting to operate)

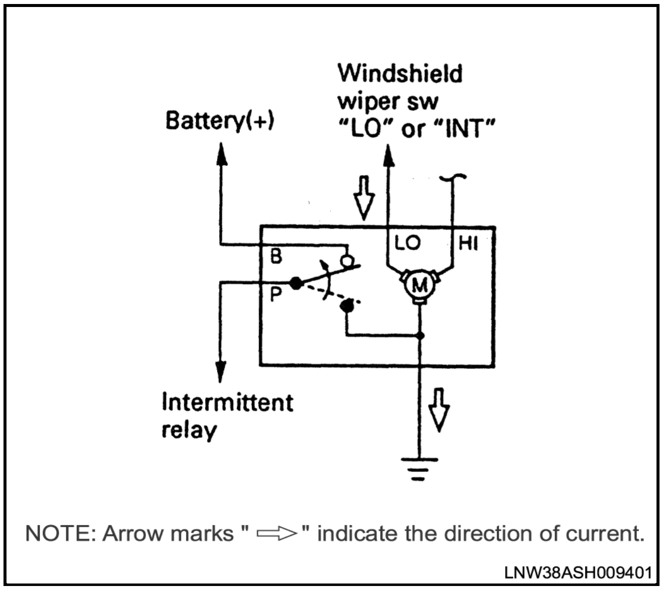

Windshield
wiper sw
“LO” or “INT”
Battery(+)
LO
HI
B
P
M
Intermittent
relay

NOTE: Arrow marks " ⇨ " indicate the direction of current.

LNW38ASH009301

4496571

2. Condition of wiper motor is operating

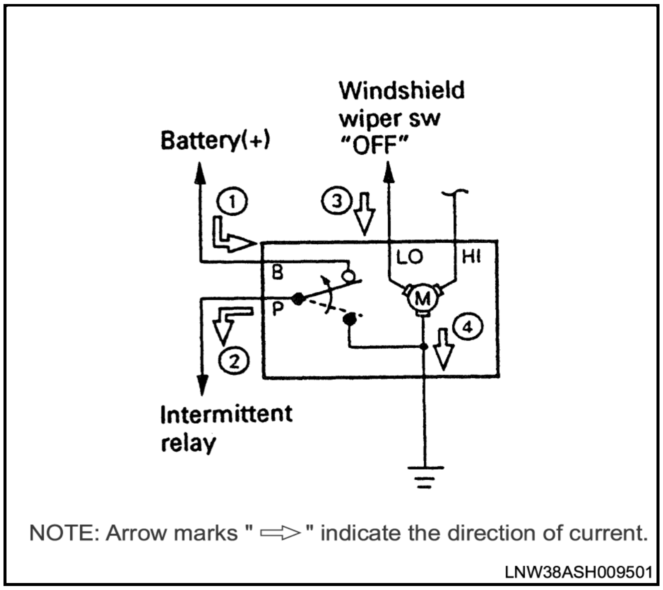

Windshield
wiper sw
“LO” or “INT”
Battery(+)
LO
HI
B
P
M
Intermittent
relay

NOTE: Arrow marks " ⇨ " indicate the direction of current.

LNW38ASH009401

4496576

3. Condition of wiper switch is just "OFF" (Wiper motor is still operating until auto-stop position)

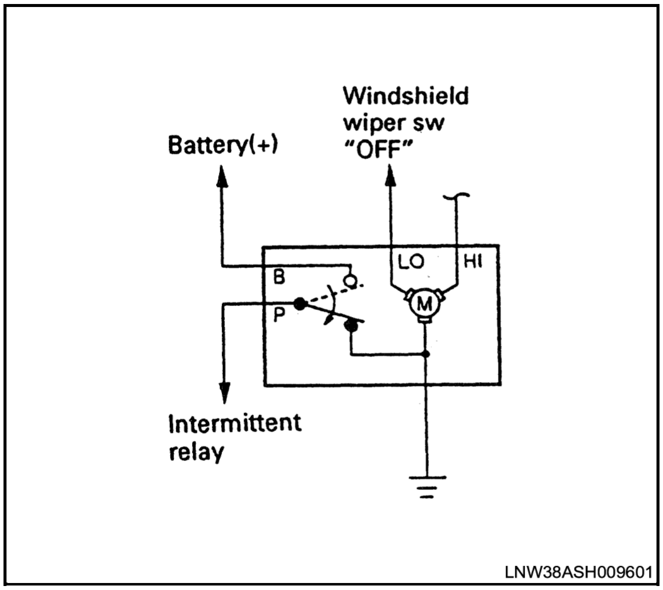

Windshield
wiper sw
“OFF”
Battery(+)
①
③
LO
HI
B
P
M
④
②
Intermittent
relay

NOTE: Arrow marks " ⇨ " indicate the direction of current.

LNW38ASH009501

4496574

4. Wiper motor stops at auto-stop position

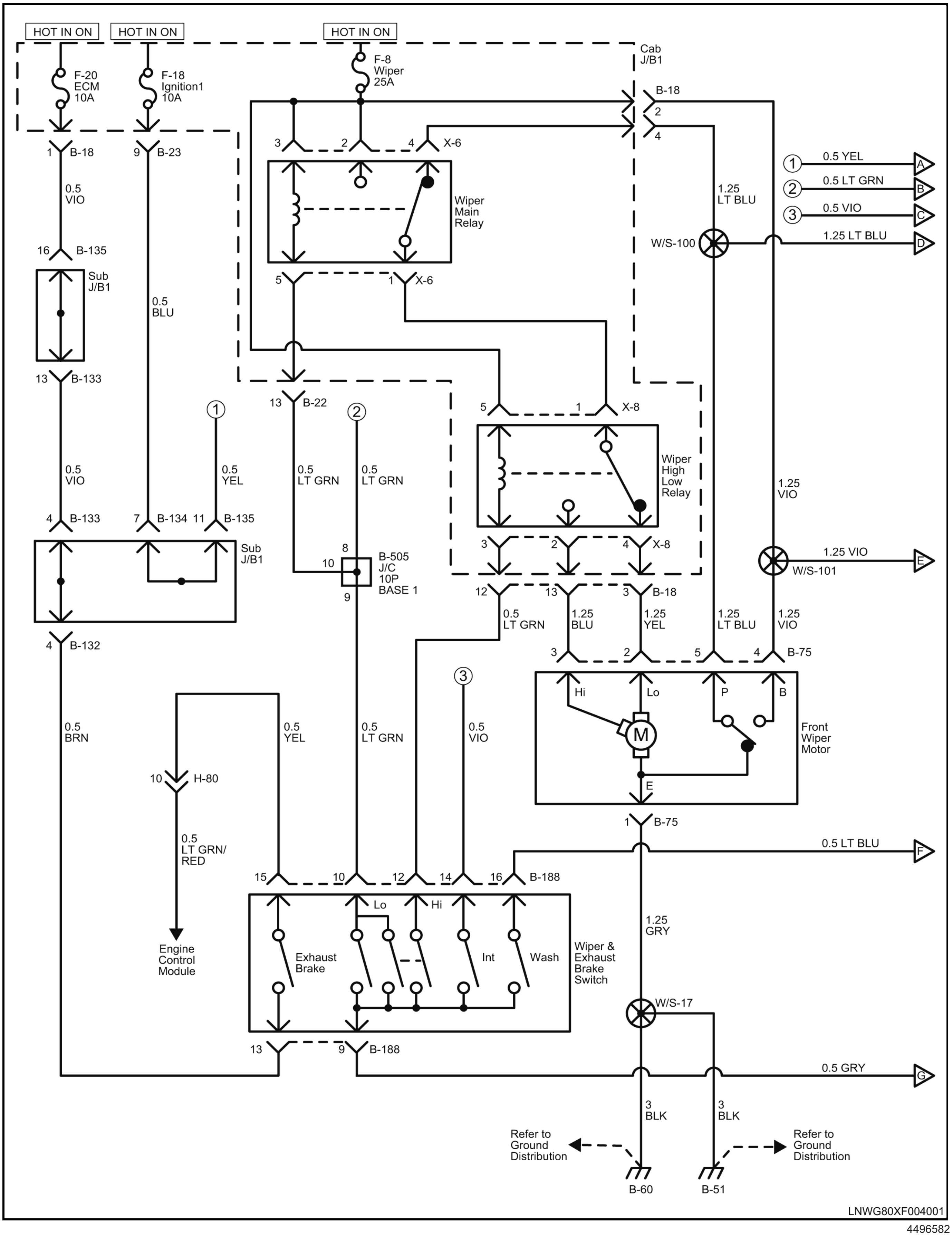

Windshield
wiper sw
“OFF”
Battery(+)
LO
HI
B
P
M
Intermittent
relay

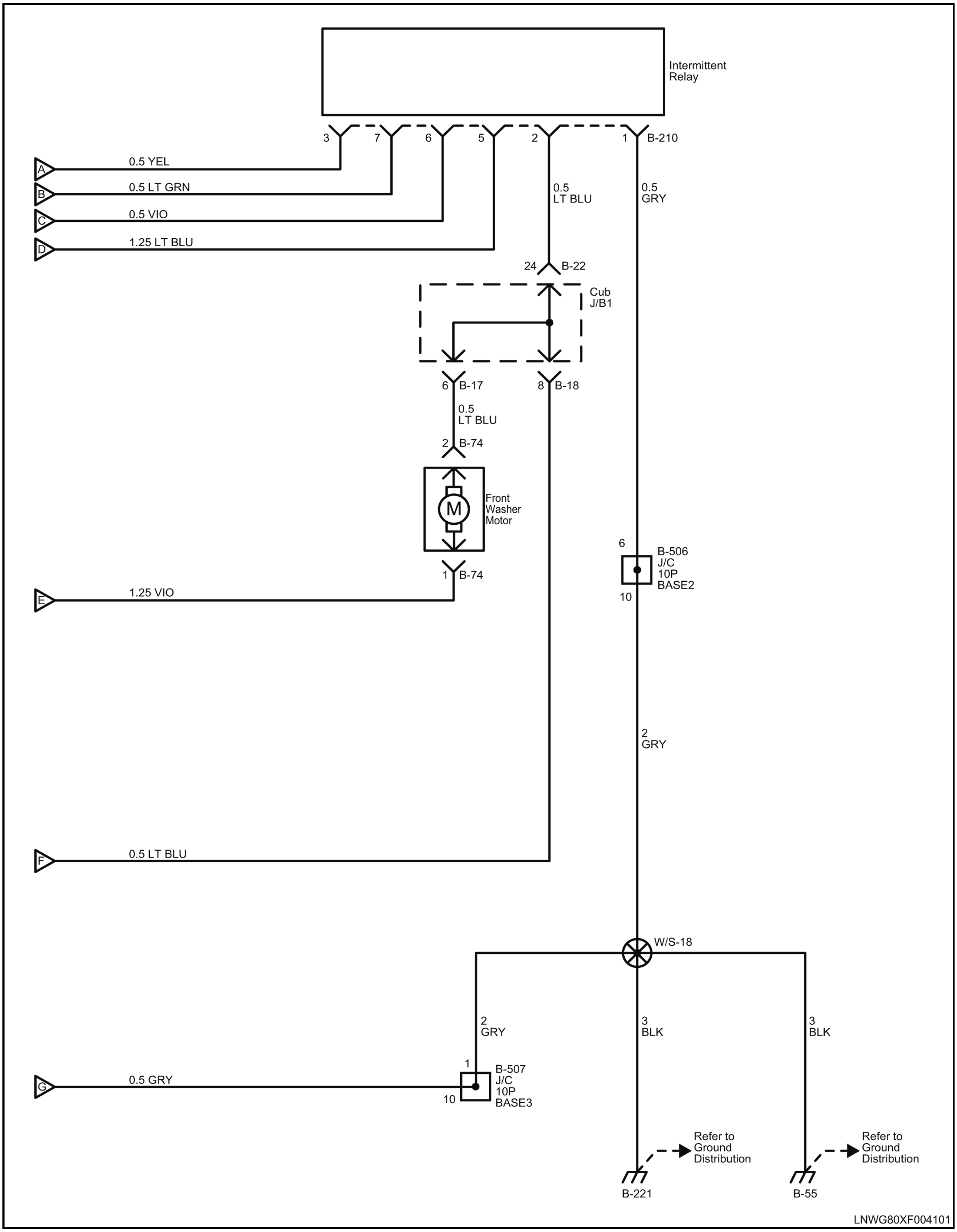
LNW38ASH009601

4496578

Schematic and Routing Diagrams

Wiper/Washer Schematics


HOT IN ON
HOT IN ON
HOT IN ON
F-20
ECM
10A
F-18
Ignition1
10A
F-8
Wiper
25A
Cab
J/B1
B-18
2
4
3
2
4
X-6
Wiper
Main
Relay
5
1
X-6
1
B-18
9
B-23
0.5
VIO
16
B-135
Sub
J/B1
0.5
BLU
13
B-133
1
2
13
B-22
1.25
LT BLU
W/S-100
① 0.5 YEL A
② 0.5 LT GRN B
③ 0.5 VIO C
1.25 LT BLU D
5
1
X-8
Wiper
High
Low
Relay
1.25
VIO
0.5
VIO
0.5
YEL
0.5
LT GRN
0.5
LT GRN
4
B-133
7
B-134
11
B-135
Sub
J/B1
8
10
B-505
J/C
10P
BASE 1
9
3
2
4
X-8
1.25 VIO
E
W/S-101
12
13
3
B-18
0.5
LT GRN
1.25
BLU
1.25
YEL
1.25
LT BLU
1.25
VIO
4
B-132
3
2
5
4
B-75
Hi
Lo
P
B
M
Front
Wiper
Motor
E
3
0.5
BRN
0.5
YEL
0.5
LT GRN
0.5
VIO
10
H-80
0.5
LT GRN/
RED
1
B-75
0.5 LT BLU
F
15
10
12
14
16
B-188
Lo
Hi
Exhaust
Brake
Int
Wash
Wiper &
Exhaust
Brake
Switch
Engine
Control
Module
1.25
GRY
W/S-17
13
9
B-188
0.5 GRY
G
3
BLK
3
BLK
Refer to
Ground
Distribution
Refer to
Ground
Distribution
B-60
B-51
LNWG80XF004001
4496582


Intermittent Relay
3
7
6
5
2
1
B-210
A
0.5 YEL
B
0.5 LT GRN
C
0.5 VIO
D
1.25 LT BLU
0.5 LT BLU
0.5 GRY
24
B-22
Cub J/B1
6
B-17
8
B-18
0.5 LT BLU
2
B-74
Front Washer Motor
M
6
B-506 J/C 10P BASE2
10
1
B-74
E
1.25 VIO
2 GRY
F
0.5 LT BLU
W/S-18
2 GRY
3 BLK
3 BLK
1
B-507 J/C 10P BASE3
G
0.5 GRY
10
Refer to Ground Distribution
Refer to Ground Distribution
B-221
B-55
LNWG80XF004101

4496584

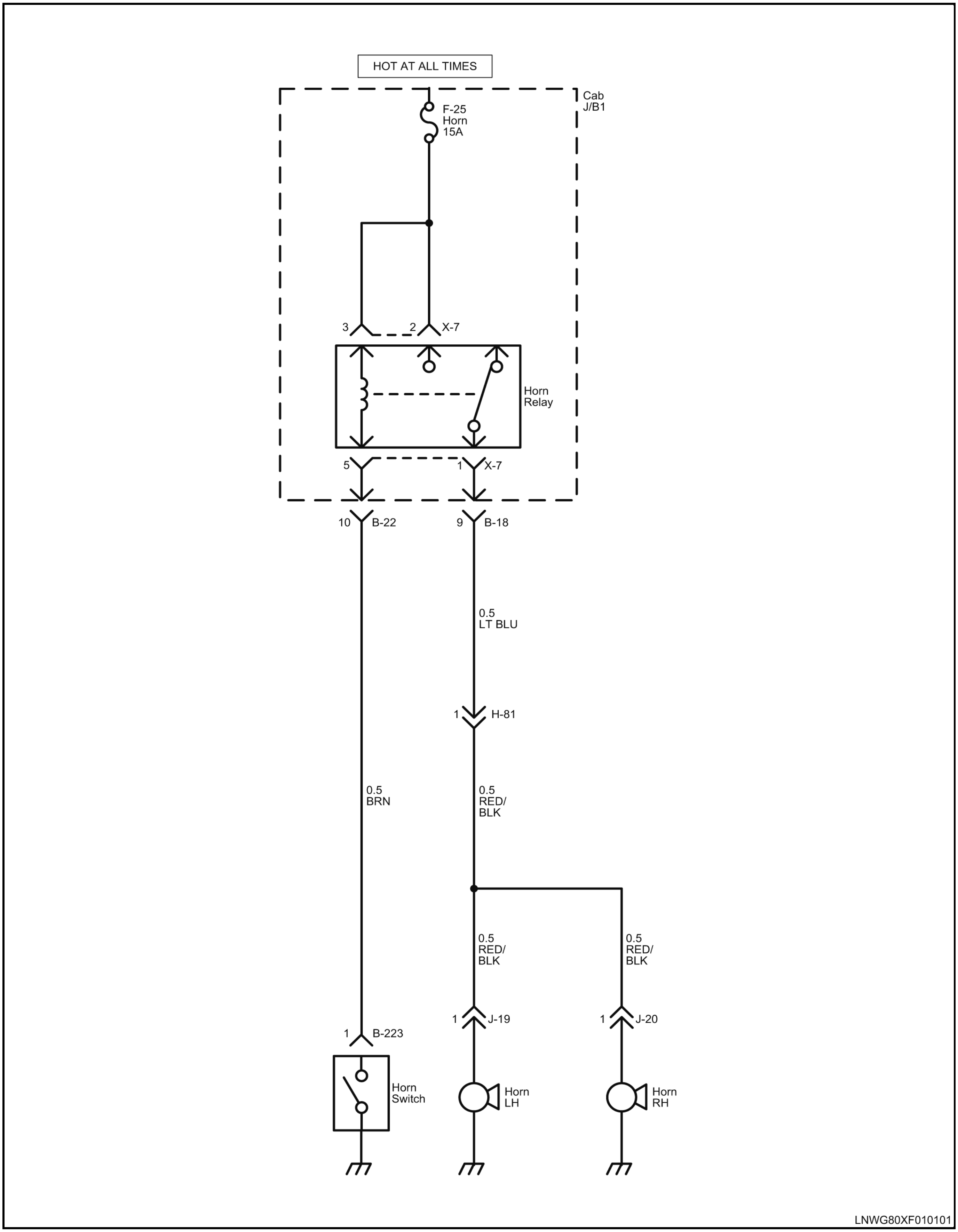
Description and Operation

Horns Circuit Description

The circuit consists of the horns, the horn switch and the relay. Horn operation is not dependent upon starter switch position. Pressing the horn pad (horn switch) activates the relay and causes the horns to sound.

Schematic and Routing Diagrams

Horn Schematics


HOT AT ALL TIMES
Cab J/B1
F-25 Horn 15A
3
2
X-7
Horn Relay
5
1
X-7
10
B-22
9
B-18
0.5 LT BLU
1
H-81
0.5 BRN
0.5 RED/ BLK
0.5 RED/ BLK
0.5 RED/ BLK
1
J-19
1
J-20
1
B-223
Horn Switch
Horn LH
Horn RH
LNWG80XF010101

4496653

Description and Operation

Radio and Cigarette Lighter Circuit Description

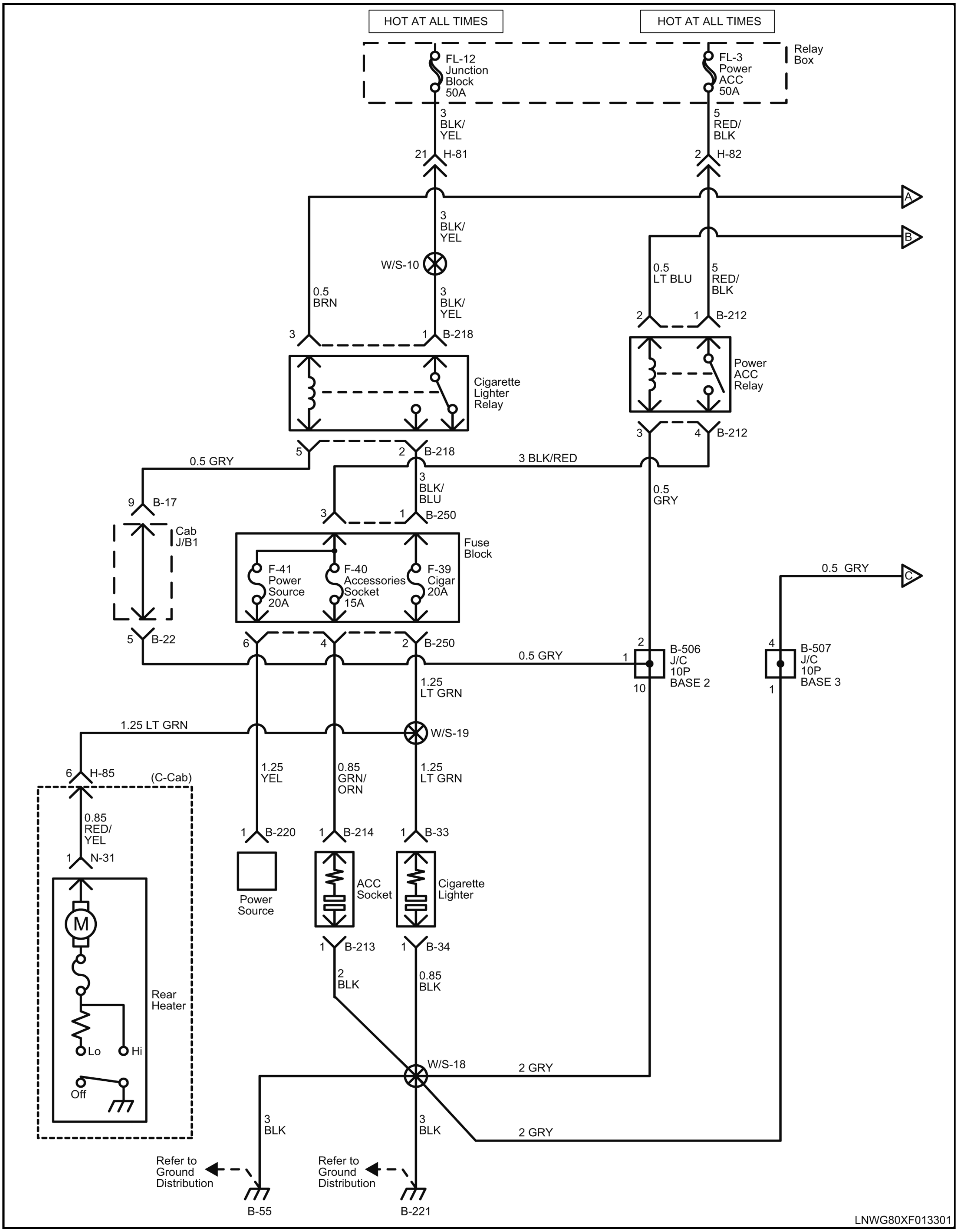
The circuit consists of the ignition switch, audio, cigarette lighter and the relay.

The audio circuit is designed for the current to flow through the receiver circuit when the audio switch is turned on with the ignition switch in “ACC” or “ON”. Current runs through the memory circuit of the audio regardless of the position of the ignition switch.

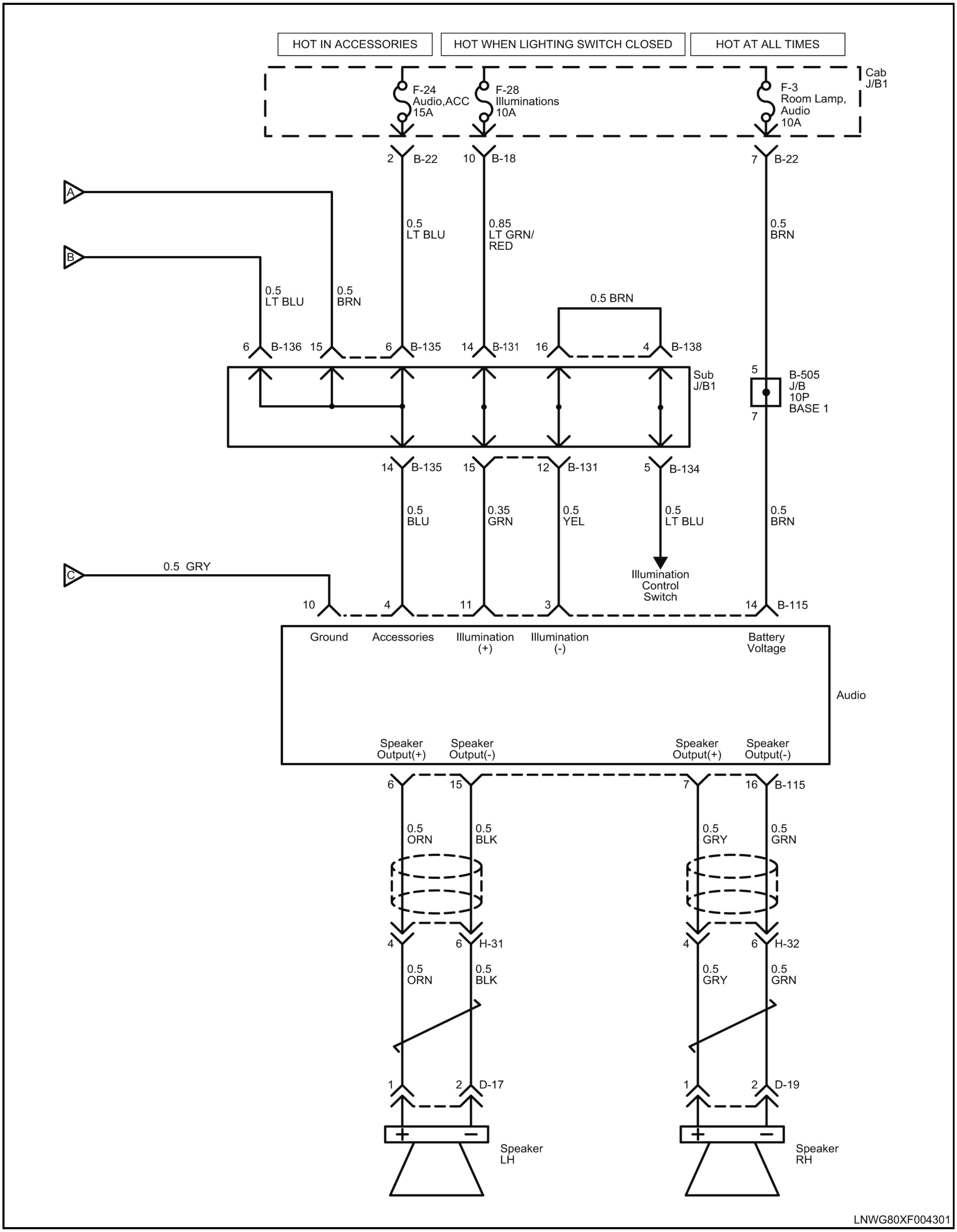
When the cigarette lighter is pushed in with the ignition switch at either “ACC” or “ON” position, a circuit is formed in the cigarette lighter case to heat the lighter coil. The cigarette lighter is spring back to its original position after the lighter coil is heated.

Schematic and Routing Diagrams

Radio and Cigarette Lighter Schematics


HOT AT ALL TIMES
HOT AT ALL TIMES
FL-12 Junction Block 50A
FL-3 Power ACC 50A
Relay Box
3 BLK/YEL
5 RED/BLK
21 H-81
2 H-82
A
B
3 BLK/YEL
W/S-10
0.5 BRN
3 BLK/YEL
0.5 LT BLU
5 RED/BLK
2
1 B-212
3
1 B-218
Cigarette Lighter Relay
Power ACC Relay
3
4 B-212
5
2 B-218
0.5 GRY
3 BLK/RED
3 BLK/BLU
0.5 GRY
9 B-17
Cab J/B1
3
1 B-250
Fuse Block
F-41 Power Source 20A
F-40 Accessories Socket 15A
F-39 Cigar 20A
0.5 GRY
C
5 B-22
6
4
2 B-250
0.5 GRY
2
1
B-506 J/C 10P BASE 2
10
4
B-507 J/C 10P BASE 3
1
1.25 LT GRN
1.25 LT GRN
W/S-19
6 H-85
(C-Cab)
1.25 YEL
0.85 GRN/ORN
1.25 LT GRN
0.85 RED/YEL
1 N-31
1 B-220
1 B-214
1 B-33
Power Source
ACC Socket
Cigarette Lighter
M
Rear Heater
Lo
Hi
Off
1 B-213
1 B-34
2 BLK
0.85 BLK
W/S-18
2 GRY
3 BLK
3 BLK
2 GRY
Refer to Ground Distribution
Refer to Ground Distribution
B-55
B-221
LNWG80XF013301

4502936


HOT IN ACCESSORIES
HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-24 Audio,ACC 15A
F-28 Illuminations 10A
F-3 Room Lamp, Audio 10A
2 B-22
10 B-18
7 B-22
A
B
C
0.5 LT BLU
0.85 LT GRN/ RED
0.5 BRN
0.5 LT BLU
0.5 BRN
0.5 BRN
6 B-136
15
6 B-135
14 B-131
16
4 B-138
Sub J/B1
5
B-505 J/B 10P BASE 1
7
14 B-135
15
12 B-131
5 B-134
0.5 BLU
0.35 GRN
0.5 YEL
0.5 LT BLU
0.5 BRN
Illumination Control Switch
0.5 GRY
10
4
11
3
14 B-115
Ground
Accessories
Illumination (+)
Illumination (-)
Battery Voltage
Audio
Speaker Output(+)
Speaker Output(-)
Speaker Output(+)
Speaker Output(-)
6
15
7
16 B-115
0.5 ORN
0.5 BLK
0.5 GRY
0.5 GRN
4
6 H-31
4
6 H-32
0.5 ORN
0.5 BLK
0.5 GRY
0.5 GRN
1
2 D-17
1
2 D-19
Speaker LH
Speaker RH
LNWG80XF004301

4496668

Description and Operation

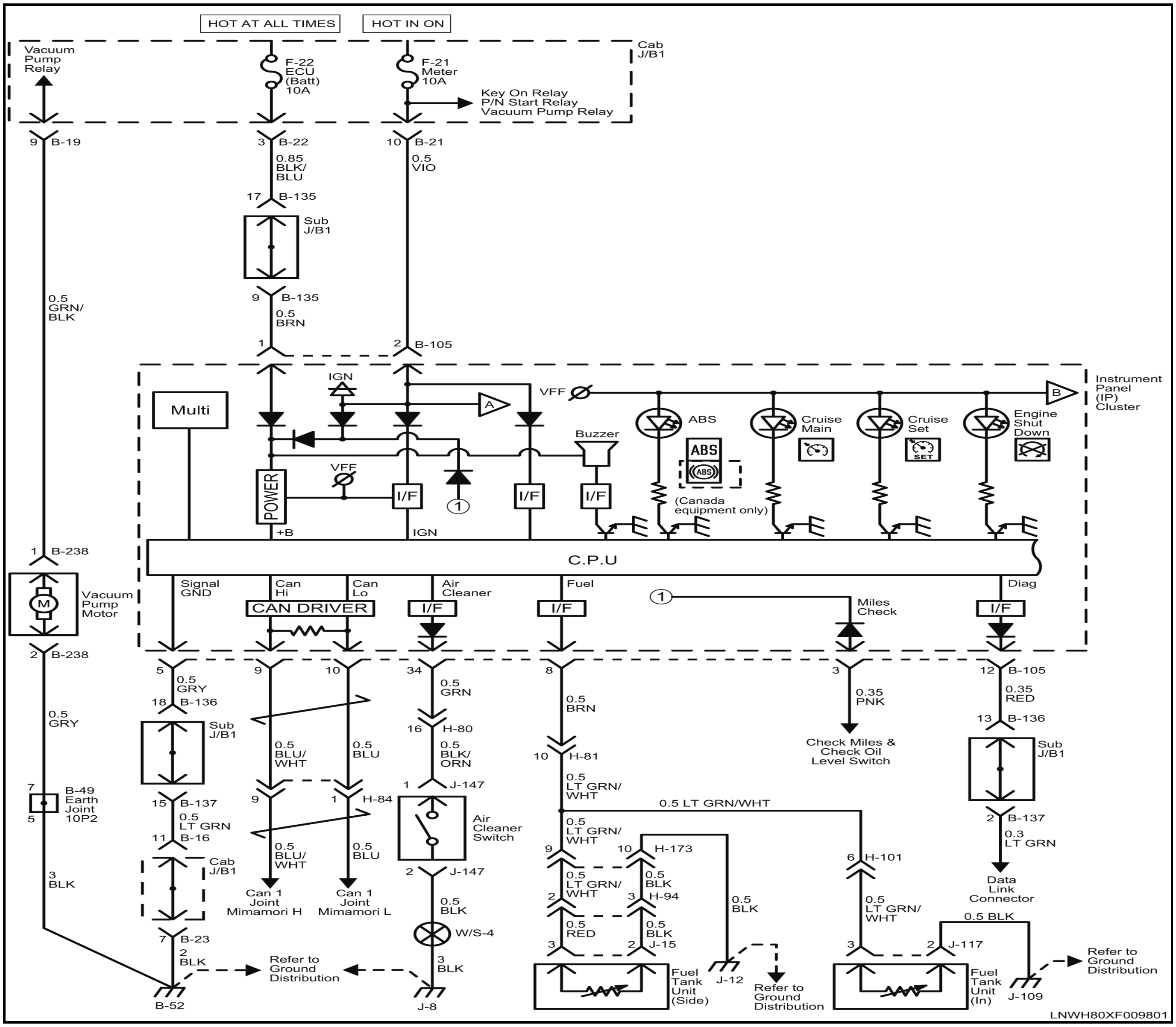
Instrument Cluster Circuit Description

The circuit consists of the ignition switch, instrument panel (IP) cluster, vacuum tank switch, oil pressure switch, brake fluid level switch, parking brake switch, vehicle speed sensor, fuel tank unit, A/T shift indicator and thermo unit.

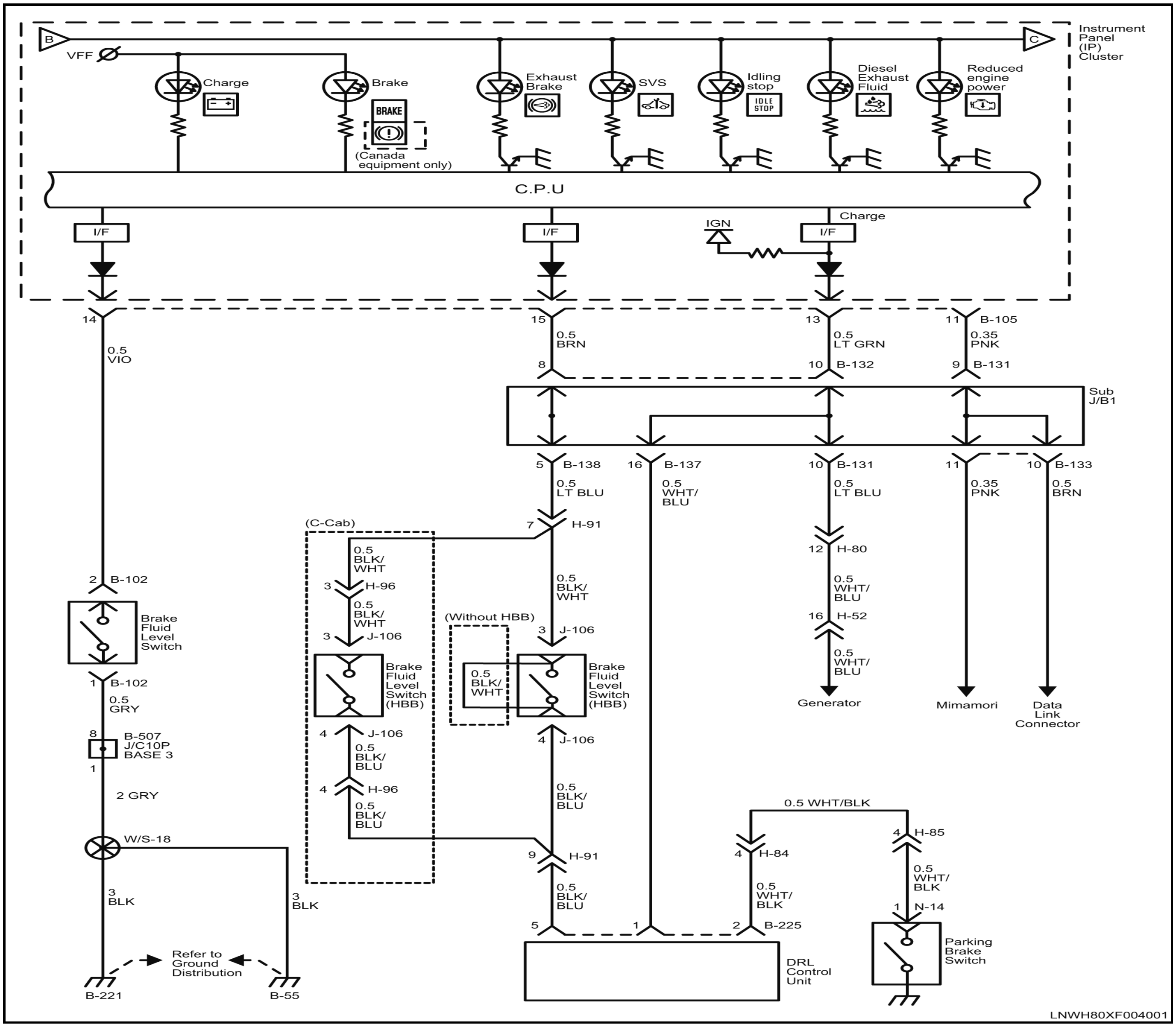
The instrument panel (IP) cluster contains the speedometer, tachometer, fuel gauge, engine coolant temperature gauge and the warning/indicator lamp.

Schematic and Routing Diagrams

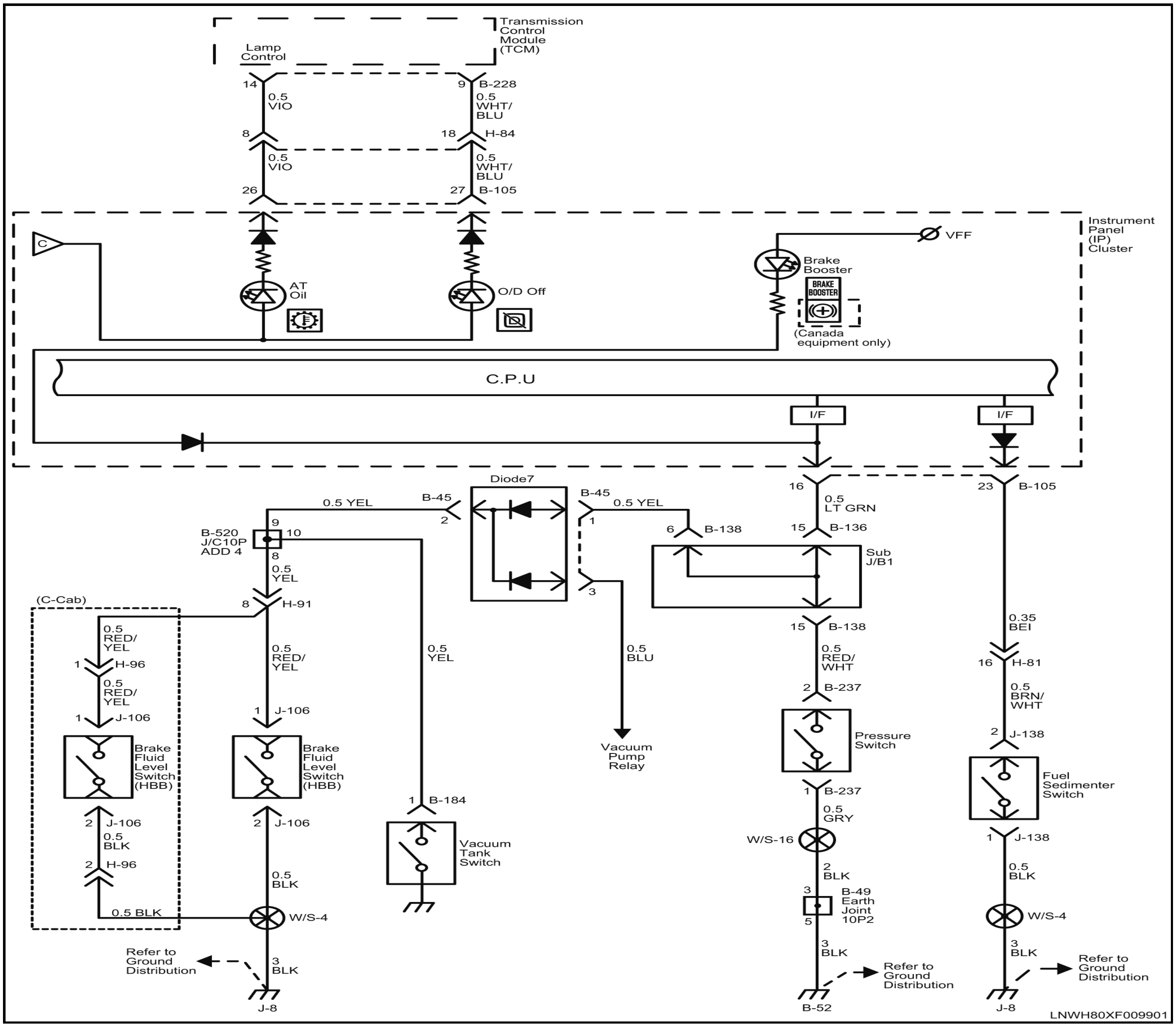
Instrument Cluster Schematics


HOT AT ALL TIMES
HOT IN ON
Vacuum Pump Relay
F-22 ECU (Batt) 10A
F-21 Meter 10A
Cab J/B1
Key On Relay
P/N Start Relay
Vacuum Pump Relay
9 B-19
3 B-22
10 B-21
0.85 BLK/ BLU
0.5 VIO
17 B-135
Sub J/B1
9 B-135
0.5 BRN
0.5 GRN/ BLK
1
2 B-105
Instrument Panel (IP) Cluster
Multi
IGN
A
VFF
B
ABS
Cruise Main
Cruise Set
Engine Shut Down
Buzzer
ABS
(ABS)
SET
(Canada equipment only)
VFF
POWER
I/F
1
I/F
I/F
+B
IGN
1 B-238
C.P.U
Vacuum Pump Motor
M
Signal GND
Can Hi
Can Lo
Air Cleaner
Fuel
1
Miles Check
Diag
CAN DRIVER
I/F
I/F
I/F
2 B-238
5
9
10
34
8
3
12 B-105
0.5 GRY
18 B-136
0.5 GRN
0.5 BRN
0.35 PNK
0.35 RED
0.5 GRY
Sub J/B1
16 H-80
13 B-136
0.5 BLU/ WHT
0.5 BLU
0.5 BLK/ ORN
10 H-81
Check Miles & Check Oil Level Switch
Sub J/B1
7 B-49 Earth Joint 10P2 5
1 J-147
0.5 LT GRN/ WHT
9
1 H-84
0.5 LT GRN/WHT
15 B-137
0.5 LT GRN
Air Cleaner Switch
0.5 LT GRN/ WHT
2 B-137
11 B-16
0.5 BLU/ WHT
0.5 BLU
9
10 H-173
0.3 LT GRN
6 H-101
Cab J/B1
2 J-147
0.5 LT GRN/ WHT
0.5 BLK
Data Link Connector
3 BLK
Can 1 Joint Mimamori H
Can 1 Joint Mimamori L
0.5 BLK
2
3 H-94
0.5 BLK
0.5 LT GRN/ WHT
0.5 BLK
W/S-4
0.5 RED
0.5 BLK
7 B-23
3
2 J-15
3
2 J-117
2 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
Fuel Tank Unit (Side)
J-12
Refer to Ground Distribution
Fuel Tank Unit (In)
J-109
B-52
J-8
LNWH80XF009801

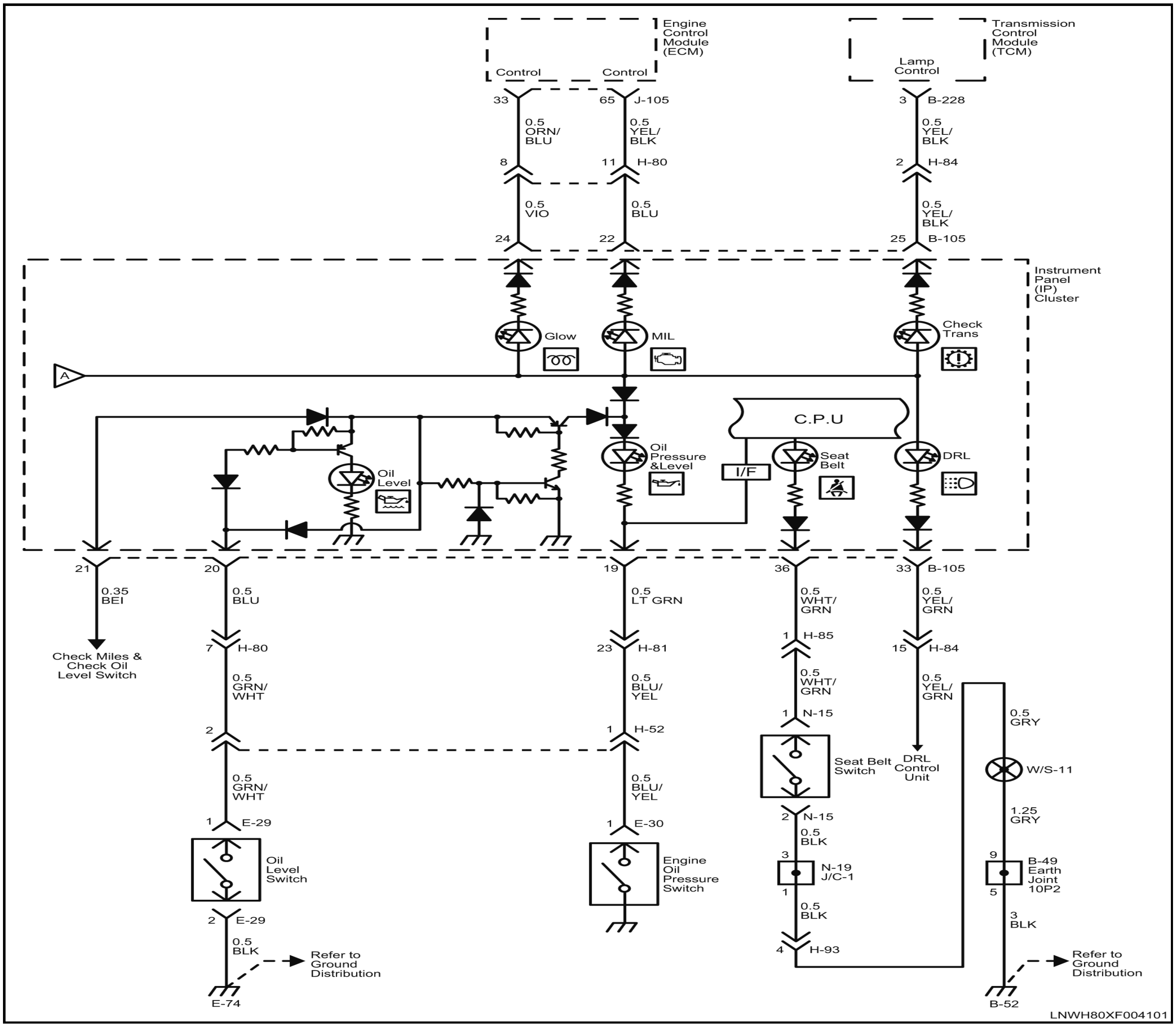
4710310


Instrument Panel (IP) Cluster
B
C
VFF
Charge
Brake
BRAKE
(Canada equipment only)
Exhaust Brake
SVS
Idling stop
IDLE STOP
Diesel Exhaust Fluid
Reduced engine power
C.P.U
I/F
I/F
IGN
Charge
I/F
14
15
13
11 B-105
0.5 VIO
0.5 BRN
0.5 LT GRN
0.35 PNK
8
10 B-132
9 B-131
Sub J/B1
5 B-138
16 B-137
10 B-131
11
10 B-133
0.5 LT BLU
0.5 WHT/ BLU
0.5 LT BLU
0.35 PNK
0.5 BRN
(C-Cab)
7 H-91
12 H-80
0.5 BLK/ WHT
3 H-96
0.5 BLK/ WHT
0.5 BLK/ WHT
0.5 WHT/ BLU
16 H-52
(Without HBB)
3 J-106
3 J-106
0.5 WHT/ BLU
Generator
Mimamori
Data Link Connector
2 B-102
Brake Fluid Level Switch
1 B-102
0.5 GRY
Brake Fluid Level Switch (HBB)
0.5 BLK/ WHT
Brake Fluid Level Switch (HBB)
4 J-106
4 J-106
8 B-507 J/C10P BASE 3
1
0.5 BLK/ BLU
2 GRY
0.5 BLK/ BLU
4 H-96
0.5 BLK/ BLU
0.5 WHT/BLK
4 H-85
4 H-84
W/S-18
9 H-91
0.5 WHT/ BLK
3 BLK
3 BLK
0.5 BLK/ BLU
0.5 WHT/ BLK
1 N-14
5
1
2 B-225
Refer to Ground Distribution
DRL Control Unit
Parking Brake Switch
B-221
B-55
LNWH80XF004001

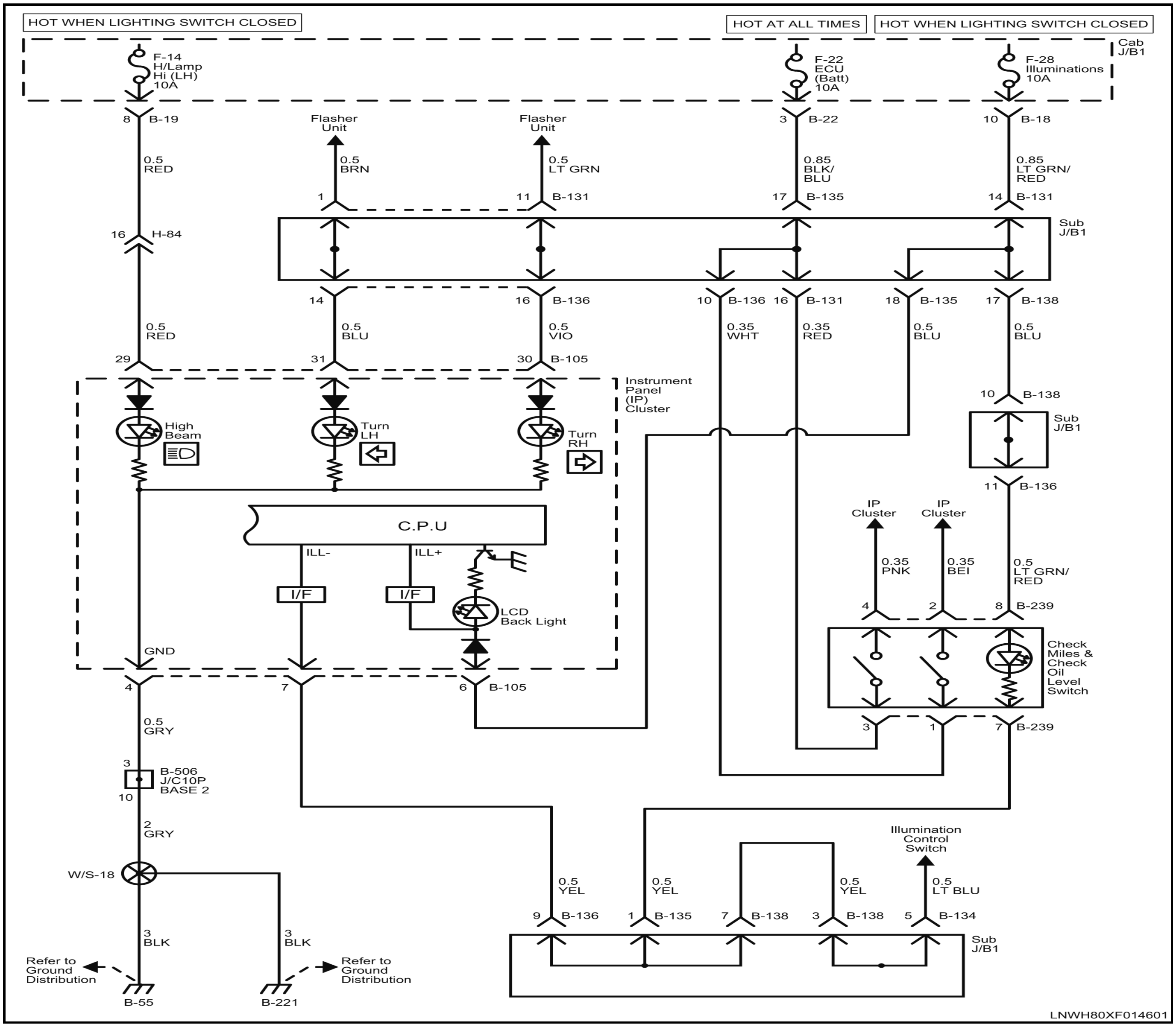
4710316


Transmission Control Module (TCM)
Lamp Control
14
9
B-228
0.5 VIO
0.5 WHT/ BLU
8
18
H-84
0.5 VIO
0.5 WHT/ BLU
26
27
B-105
Instrument Panel (IP) Cluster
C
VFF
AT Oil
O/D Off
Brake Booster
BRAKE BOOSTER
(Canada equipment only)
C.P.U
I/F
I/F
16
23
B-105
0.5 LT GRN
Diode7
0.5 YEL
B-45
2
B-45
1
0.5 YEL
6
B-138
15
B-136
B-520 J/C10P ADD 4
9
10
8
0.5 YEL
Sub J/B1
3
(C-Cab)
8
H-91
15
B-138
0.35 BEI
0.5 RED/ YEL
0.5 RED/ YEL
0.5 YEL
0.5 BLU
0.5 RED/ WHT
1
H-96
16
H-81
0.5 RED/ YEL
2
B-237
0.5 BRN/ WHT
1
J-106
1
J-106
2
J-138
Brake Fluid Level Switch (HBB)
Brake Fluid Level Switch (HBB)
Vacuum Pump Relay
Pressure Switch
Fuel Sedimenter Switch
1
B-184
1
B-237
2
J-106
2
J-106
Vacuum Tank Switch
1
J-138
0.5 BLK
0.5 GRY
2
H-96
W/S-16
0.5 BLK
0.5 BLK
2 BLK
0.5 BLK
3
B-49 Earth Joint 10P2
5
W/S-4
W/S-4
Refer to Ground Distribution
3 BLK
3 BLK
Refer to Ground Distribution
3 BLK
Refer to Ground Distribution
J-8
B-52
J-8
LNWH80XF009901

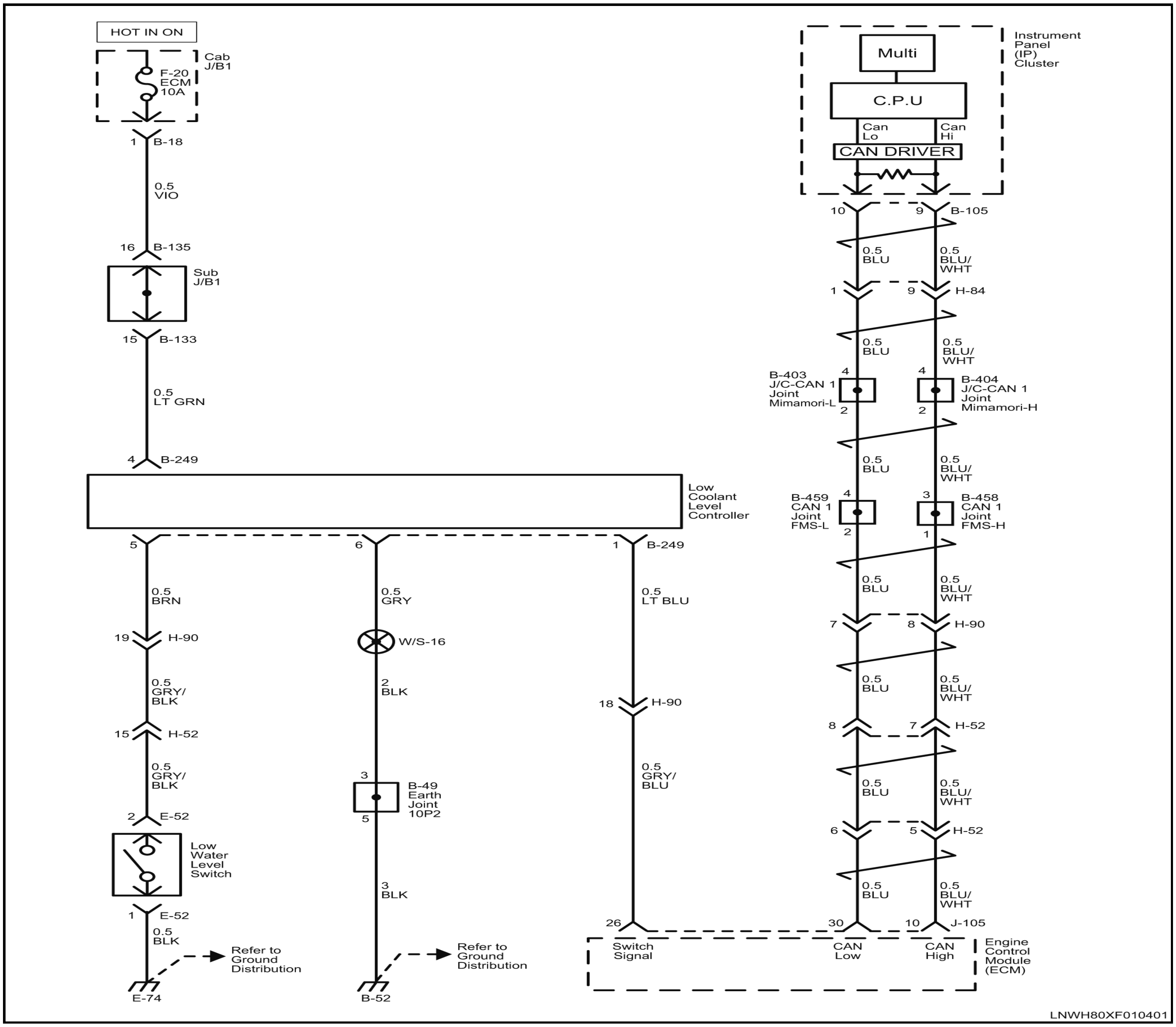
4710318


Engine Control Module (ECM)
Control
Control
33
65
J-105
0.5 ORN/ BLU
0.5 YEL/ BLK
8
11
H-80
0.5 VIO
0.5 BLU
24
22
Transmission Control Module (TCM)
Lamp Control
3
B-228
0.5 YEL/ BLK
2
H-84
0.5 YEL/ BLK
25
B-105
Instrument Panel (IP) Cluster
A
Glow
MIL
Check Trans
Oil Level
Oil Pressure &Level
C.P.U
I/F
Seat Belt
DRL
21
20
19
36
33
B-105
0.35 BEI
Check Miles & Check Oil Level Switch
0.5 BLU
7
H-80
0.5 GRN/ WHT
2
0.5 GRN/ WHT
1
E-29
Oil Level Switch
2
E-29
0.5 BLK
Refer to Ground Distribution
E-74
0.5 LT GRN
23
H-81
0.5 BLU/ YEL
1
H-52
0.5 BLU/ YEL
1
E-30
Engine Oil Pressure Switch
0.5 WHT/ GRN
1
H-85
0.5 WHT/ GRN
1
N-15
Seat Belt Switch
2
N-15
0.5 BLK
3
N-19 J/C-1
1
0.5 BLK
4
H-93
0.5 YEL/ GRN
15
H-84
0.5 YEL/ GRN
DRL Control Unit
0.5 GRY
W/S-11
1.25 GRY
9
B-49 Earth Joint 10P2
5
3 BLK
Refer to Ground Distribution
B-52
LNWH80XF004101

4710320


HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
HOT WHEN LIGHTING SWITCH CLOSED
Cab J/B1
F-14 H/Lamp Hi (LH) 10A
F-22 ECU (Batt) 10A
F-28 Illuminations 10A
8 B-19
Flasher Unit
Flasher Unit
3 B-22
10 B-18
0.5 RED
0.5 BRN
0.5 LT GRN
0.85 BLK/ BLU
0.85 LT GRN/ RED
1
11 B-131
17 B-135
14 B-131
16 H-84
Sub J/B1
14
16 B-136
10 B-136
16 B-131
18 B-135
17 B-138
0.5 RED
0.5 BLU
0.5 VIO
0.35 WHT
0.35 RED
0.5 BLU
0.5 BLU
29
31
30 B-105
Instrument Panel (IP) Cluster
10 B-138
Sub J/B1
High Beam
Turn LH
Turn RH
11 B-136
C.P.U
ILL-
ILL+
I/F
I/F
LCD Back Light
IP Cluster
IP Cluster
0.35 PNK
0.35 BEI
0.5 LT GRN/ RED
4
2
8 B-239
Check Miles & Check Oil Level Switch
GND
4
7
6 B-105
3
1
7 B-239
0.5 GRY
3
B-506 J/C10P BASE 2
10
2 GRY
W/S-18
Illumination Control Switch
0.5 YEL
0.5 YEL
0.5 YEL
0.5 LT BLU
9 B-136
1 B-135
7 B-138
3 B-138
5 B-134
Sub J/B1
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
B-55
B-221
LNWH80XF014601

4710323


HOT IN ON
Cab J/B1
F-20 ECM 10A
B-18
0.5 VIO
B-135
Sub J/B1
B-133
0.5 LT GRN
B-249
Low Coolant Level Controller
0.5 BRN
H-90
0.5 GRY/BLK
H-52
0.5 GRY/BLK
E-52
Low Water Level Switch
E-52
0.5 BLK
E-74
Refer to Ground Distribution
0.5 GRY
W/S-16
2 BLK
B-49 Earth Joint 10P2
3 BLK
B-52
Refer to Ground Distribution
0.5 LT BLU
H-90
0.5 GRY/BLU
Instrument Panel (IP) Cluster
Multi
C.P.U
Can Lo
Can Hi
CAN DRIVER
B-105
0.5 BLU
0.5 BLU/WHT
H-84
B-403 J/C-CAN 1 Joint Mimamori-L
B-404 J/C-CAN 1 Joint Mimamori-H
B-459 CAN 1 Joint FMS-L
B-458 CAN 1 Joint FMS-H
H-90
H-52
H-52
J-105
Switch Signal
CAN Low
CAN High
Engine Control Module (ECM)
LNWH80XF010401

4710327

Description and Operation

Instrument Cluster Description and Operation

Description of Function and Operation

The following gauges and various warnings / indicators (warning lamp and indicator lamp) are assembled to the instrument panel (IP) cluster.

- Speedometer
- Tachometer (engine rpm gauge)
- Fuel gauge
- Engine coolant temperature gauge
- Odometer/Trip meter
- Shift indicator
- Multi-information display

These components cannot be replaced separately because they are integrated with the IP cluster.

In addition, they are communicating with the engine control module (ECM), the transmission control module (TCM), the MIMAMORI control unit and the electronic hydraulic control unit (EHCU) etc. via ECU and CAN.

Speedometer

Speedometer indicates the vehicle speed based on the vehicle speed signal outputted from the engine control module (ECM). The vehicle speed signal is corrected at ECM and inputted into the IP cluster through CAN communication.

Tachometer

Tachometer indicates the engine revolutions based on the engine revolution signal from ECM. The engine speed signal is a signal from the crankshaft position (CKP) sensor detected by ECM and inputted into the IP cluster through CAN communication.

Fuel Gauge

Fuel gauge indicates the remaining fuel level based on the signal of the fuel tank unit of the fuel tank. Fuel gauge indicates the remaining fuel level as "low" when the resistance of the fuel level detector of the fuel tank unit is high. The fuel gauge indicates the remaining fuel level as "high" when the resistance of the fuel level detector is low.

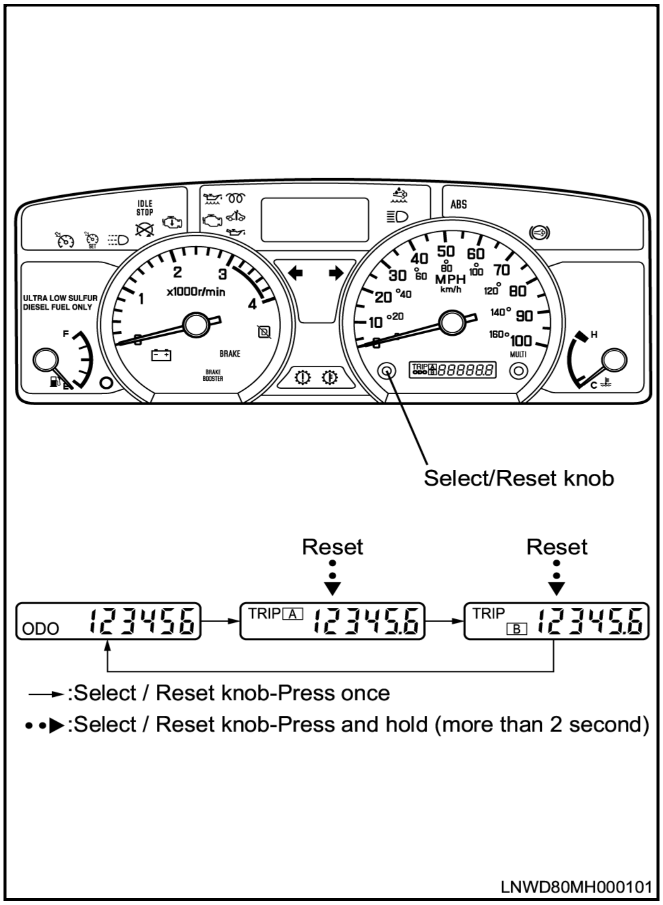
Engine Coolant Temperature Gauge

Engine coolant temperature gauge indicates the engine coolant temperature based on the engine coolant temperature signal from the ECM. The engine coolant temperature signal is a signal from the engine coolant temperature (ECT) sensor, which is detected by ECM and inputted into the thermometer through CAN communication.

Odometer/Trip Meter

Odometer/ trip meter calculate and display the mileage based on the vehicle speed signal from the ECM or from the vehicle speed sensor. Odometer/ trip meter will be displayed for 5 minutes after the ignition switch is turned "OFF".

Switch the display using the Select/ Reset knob operation.


Select/Reset knob
Reset
Reset
ODO 123456
TRIP A 12345.6
TRIP B 12345.6
:Select / Reset knob-Press once
:Select / Reset knob-Press and hold (more than 2 second)
LNWD80MH000101

4503023

Switching indication

- ODO > TRIP A > TRIP B > ODO

Hour Meter

The hour meter uses multi-information display to show accumulated engine operating time. The engine operating time is calculated by MIMAMORI control unit interlocked with the engine operation and inputted into the IP cluster through CAN communication. When the engine operation time data has not been obtained through CAN communication for 2 seconds or more, "ERROR" is displayed on the multi-information display.

Refer to "MIMAMORI control" for resetting counters.

Multi-information Display

The display functions to display information, warning lamp, indicator lamp and maintenance information.

Information Display

- Total fuel consumption, Sectional fuel consumption, and Instantaneous fuel consumption.

  If the speedometer is graduated in both mile and kilometer, the fuel economy is indicated in miles per gallon (MPG).

  - Fuel consumption display is requested to the MIMAMORI and the data obtained through CAN communication will be displayed. When the fuel consumption indication data has not been obtained through CAN communication for 2 seconds or more, "ERROR" is displayed on the multi-information display.
  - "99.9MPG" is displayed when the total or the sectional fuel consumption data is 99.9MPG or more.
  - The total fuel consumption display is reset at the MIMAMORI. Refer to the "MIMAMORI System" in Section 8K Vehicle Control.
  - The sectional fuel consumption is reset when you reset the trip B.
  - The instantaneous fuel consumption is the fuel consumption at a certain moment while driving the vehicle.
- DPF display
  - When DPF display is selected, the DPF regeneration status signal is obtained through CAN communication from ECM. PM accumulation volume is displayed when there is no regeneration, and the DPF regeneration progress will be displayed when DPF is under regeneration.
  - PM accumulation volume is displayed in 6 levels. The display on the multi-information display increases as the accumulation volume increases.
  - DPF regeneration progress is displayed in 6 levels. The display on the multi-information display decreases as the regeneration progresses.
- Selective catalyst reduction (SCR) system display
  - The selective catalyst reduction (SCR) displays in a scale of 4 levels.
- Voltage meter
  - The voltage meter displays the battery voltage in a scale of 9 levels.
- Calendar and Clock
- Dimmer
  - The brightness of MID can be adjusted while the light control switch is OFF.

Warning Lamp and Indicator Lamp Display

- Air cleaner indicator lamp
- Exhaust system warning lamp
- Regeneration required warning lamp
- Selectable (switch) regeneration required warning lamp
- Regeneration in progress indicator lamp
- Checking PM level indicator lamp
- Low fuel warning lamp
- Water separator (fuel filter) warning lamp
- Engine overheat warning lamp
- Restart time(s) warning lamp
- No restart warning lamp
- Meter failure
- CAN system error
- Refill diesel exhaust fluid (DEF) warning lamp
- SCR system malfunction warning
- Incorrect diesel exhaust fluid (DEF) warning lamp

Maintenance Indications

- Engine oil and Filter indicator lamp
- Transmission and differential gear oil indicator lamp
- Starter indicator lamp
- Fuel filter indicator lamp
- Power steering fluid indicator lamp
- Tire rotation indicator lamp

The maintenance display displays the maintenance schedule for each item. Pre-set distances of each maintenance item are counted down and maintenance recommended periods are indicated by color changes from (Green) to (Amber) and warnings are displayed when turning the ignition switch to "ON". (The maintenance display is displayed when the vehicle speed is 16MPH (25km/h) or less.)

Keyless Entry System Circuit Description

The circuit consists of the keyless entry control unit, remote controller key, key remaind switch, door lock relay, door lock motor, door switch, and etc..

The signal that the keyless entry control unit receives is sent to the door lock relay when the remote controller key button is pressed. The door lock relay operates the door lock motor and the doors will be locked or unlocked.

The Keyless Entry System is equipped with the following functions.

- Lock and unlock functions by remote controller operation, auto re-lock function and retry function.
- Remote controller key registration function
- Answer-back function

For lock and unlock functions with the remote controller operation, when locking/unlocking, the driver side door and passenger side door are controlled at the same time. For double cab models, the rear doors are also controlled at the same time.

The auto re-lock function locks the door automatically if the door is not open for 30 seconds or more after unlocking.

The remote controller operation is disabled if the following are met.

- Battery power supply is not applied to the keyless entry control unit.
- The key is inserted into the key cylinder.
- The door is open.
- The ignition switch position is ON or ACC.

If the driver side door is not locked when the doors are locked by the remote controller operation, the retry function locks automatiocally one second later (only once).

When any of the following are met, until the retry function activates, the retry function is disabled.

- The door is open.
- The remote controller key is inserted to the key cylinder.
- An operation is newly performed by the remote controller key.

For the remote controller key registration function, the remote controller operation registration is accepted only from the genuine remote controller key. It is possible to register a maximum of 4 remote controller keys.

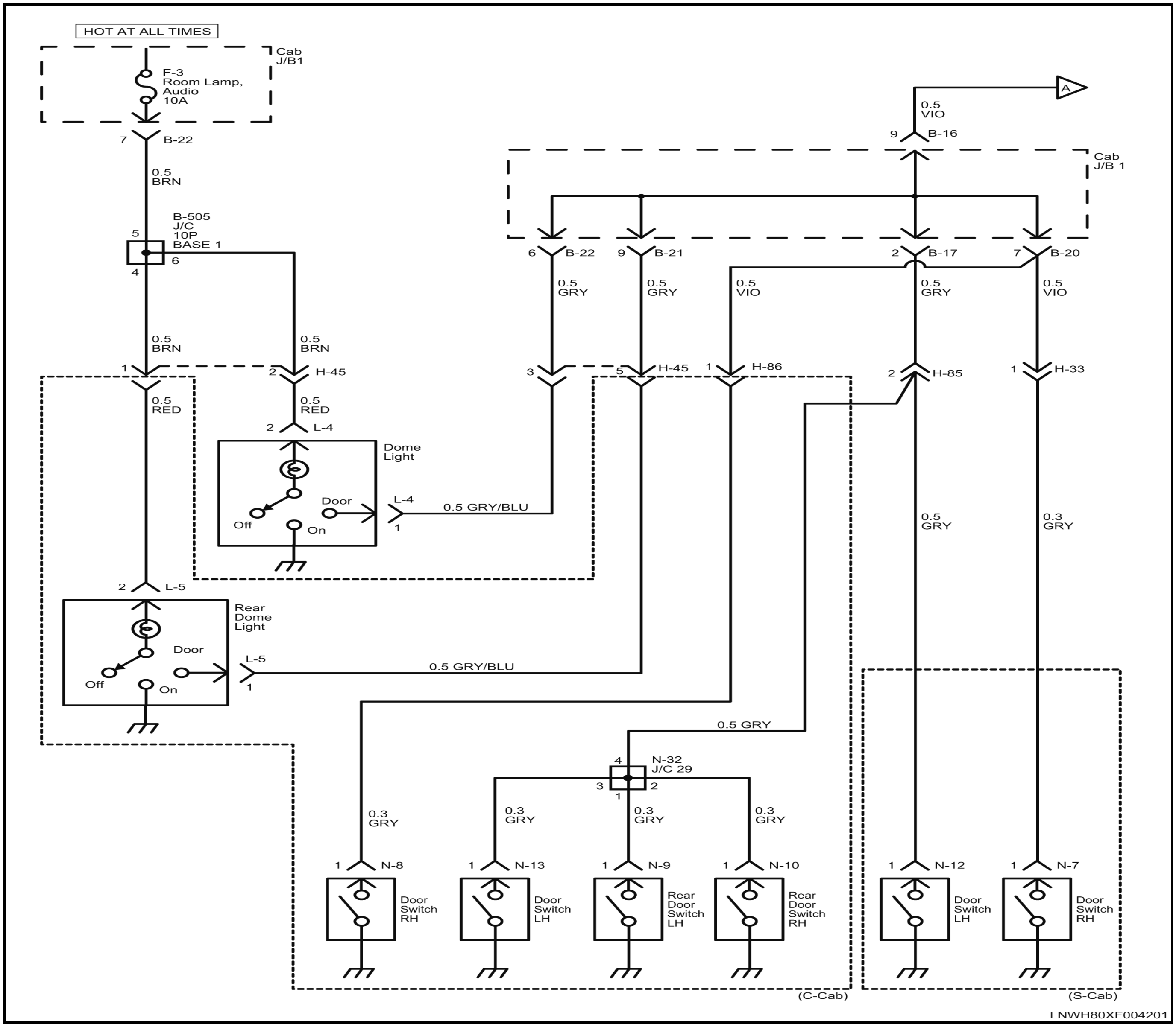
If 4 remote controller keys are registered, the oldest code is cleared for additional registrations. For the registration procedure of the remote controller key, refer to Registration of the remote controller key.

For the answer-back function, perform the answer-back using the hazard lights. There are the following 2 patterns for the answer-back. Answer-back will not activate when auto re-lock is performed.

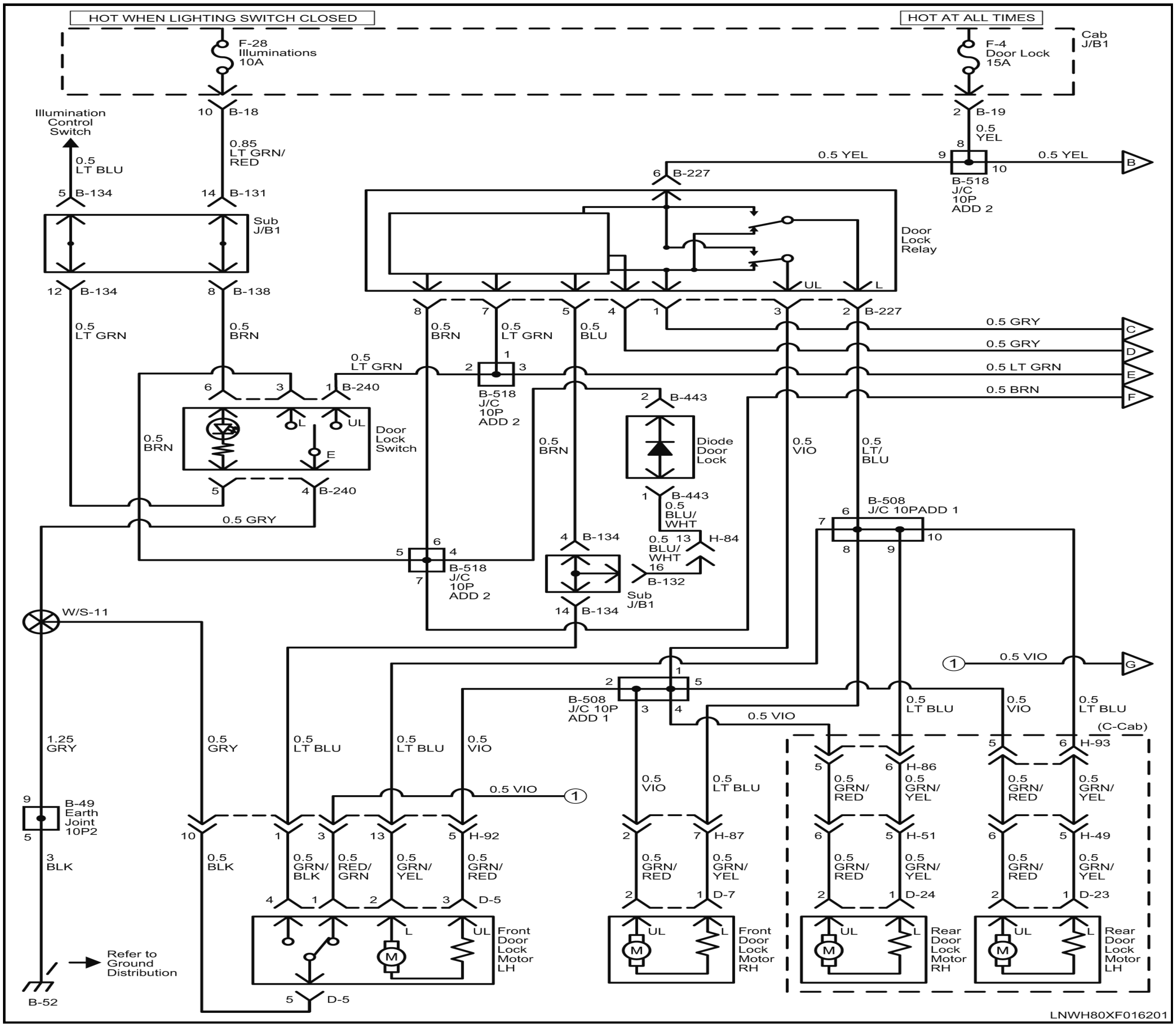
- 1 flash: when locked by the remote controller key or locked by the auto re-lock function.
- 2 flashes: when unlocked by the remote controller key

Schematic and Routing Diagrams

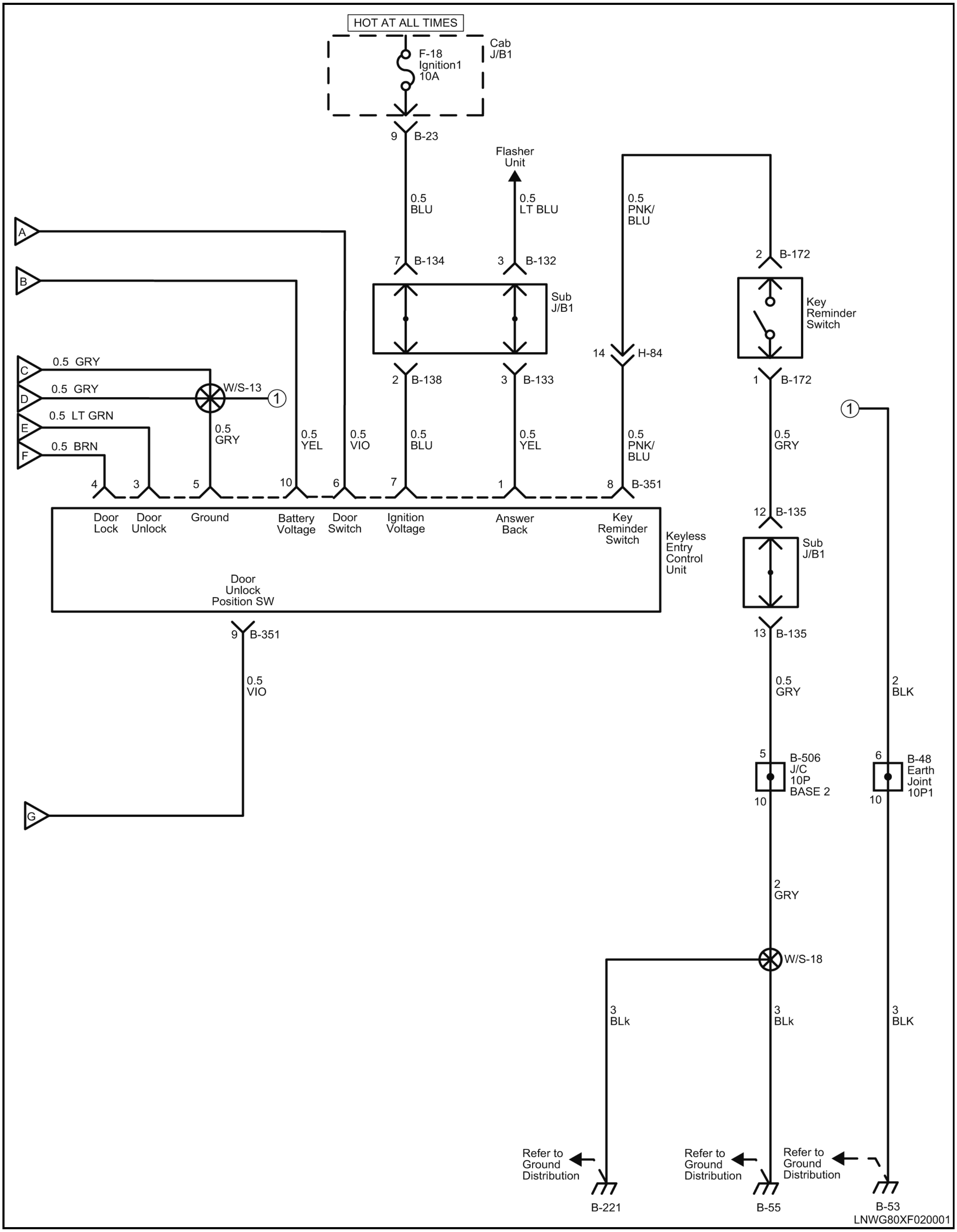
Keyless Entry Schematics


HOT AT ALL TIMES
Cab J/B1
F-3 Room Lamp, Audio 10A
7 B-22
0.5 BRN
B-505 J/C 10P BASE 1
5
4
6
0.5 BRN
0.5 BRN
1
2 H-45
0.5 RED
0.5 RED
2 L-4
Dome Light
Door
Off
On
L-4 1
0.5 GRY/BLU
2 L-5
Rear Dome Light
Door
Off
On
L-5 1
0.5 GRY/BLU
A
0.5 VIO
9 B-16
Cab J/B 1
6 B-22
9 B-21
2 B-17
7 B-20
0.5 GRY
0.5 GRY
0.5 VIO
0.5 GRY
0.5 VIO
3
5 H-45
1 H-86
2 H-85
1 H-33
0.5 GRY
0.3 GRY
0.5 GRY
N-32 J/C 29
4
3
2
1
0.3 GRY
0.3 GRY
0.3 GRY
0.3 GRY
1 N-8
Door Switch RH
1 N-13
Door Switch LH
1 N-9
Rear Door Switch LH
1 N-10
Rear Door Switch RH
1 N-12
Door Switch LH
1 N-7
Door Switch RH
(C-Cab)
(S-Cab)
LNWH80XF004201

4710336


HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-28 Illuminations 10A
F-4 Door Lock 15A
10 B-18
2 B-19
Illumination Control Switch
0.85 LT GRN/ RED
0.5 YEL
0.5 LT BLU
8
9
10
0.5 YEL
0.5 YEL
B
B-518 J/C 10P ADD 2
6 B-227
5 B-134
14 B-131
Sub J/B1
Door Lock Relay
UL
L
12 B-134
8 B-138
8 7 5 4 1 3 2 B-227
0.5 LT GRN
0.5 BRN
0.5 BRN
0.5 LT GRN
0.5 BLU
0.5 GRY
C
0.5 GRY
D
0.5 LT GRN
E
0.5 BRN
F
0.5 LT GRN
6 3 1 B-240
2 1 3
B-518 J/C 10P ADD 2
2 B-443
Door Lock Switch
L
UL
E
0.5 BRN
0.5 BRN
Diode Door Lock
0.5 VIO
0.5 LT/ BLU
5 4 B-240
1 B-443
0.5 BLU/ WHT
0.5 GRY
B-508 J/C 10PADD 1
6 7 8 9 10
4 B-134
0.5 13 BLU/ WHT 16
H-84
B-132
5 6 4 7
B-518 J/C 10P ADD 2
Sub J/B1
14 B-134
W/S-11
1
0.5 VIO
G
2 1 5 3 4
B-508 J/C 10P ADD 1
0.5 VIO
0.5 LT BLU
0.5 VIO
0.5 LT BLU
(C-Cab)
1.25 GRY
0.5 GRY
0.5 LT BLU
0.5 LT BLU
0.5 VIO
0.5 VIO
0.5 LT BLU
5 6 H-86
5 6 H-93
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 VIO
1
9
B-49 Earth Joint 10P2
5
10 1 3 13 5 H-92
2 7 H-87
6 5 H-51
6 5 H-49
3 BLK
0.5 BLK
0.5 GRN/ BLK
0.5 RED/ GRN
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
4 1 2 3 D-5
2 1 D-7
2 1 D-24
2 1 D-23
L
UL
M
Front Door Lock Motor LH
UL
L
M
Front Door Lock Motor RH
UL
L
M
Rear Door Lock Motor RH
UL
L
M
Rear Door Lock Motor LH
Refer to Ground Distribution
B-52
5 D-5
LNWH80XF016201

4710341


HOT AT ALL TIMES
Cab J/B1
F-18 Ignition1 10A
9 B-23
0.5 BLU
Flasher Unit
0.5 LT BLU
0.5 PNK/ BLU
7 B-134
3 B-132
2 B-172
Sub J/B1
Key Reminder Switch
14 H-84
2 B-138
3 B-133
1 B-172
A
B
C
D
E
F
0.5 GRY
0.5 GRY
W/S-13
1
0.5 LT GRN
0.5 BRN
0.5 GRY
0.5 YEL
0.5 VIO
0.5 BLU
0.5 YEL
0.5 PNK/ BLU
0.5 GRY
4
3
5
10
6
7
1
8 B-351
12 B-135
Door Lock
Door Unlock
Ground
Battery Voltage
Door Switch
Ignition Voltage
Answer Back
Key Reminder Switch
Keyless Entry Control Unit
Door Unlock Position SW
Sub J/B1
9 B-351
13 B-135
0.5 VIO
0.5 GRY
2 BLK
5 B-506 J/C 10P BASE 2 10
6 B-48 Earth Joint 10P1 10
G
2 GRY
W/S-18
3 BLk
3 BLk
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-221
B-55
B-53
LNWG80XF020001

4503167

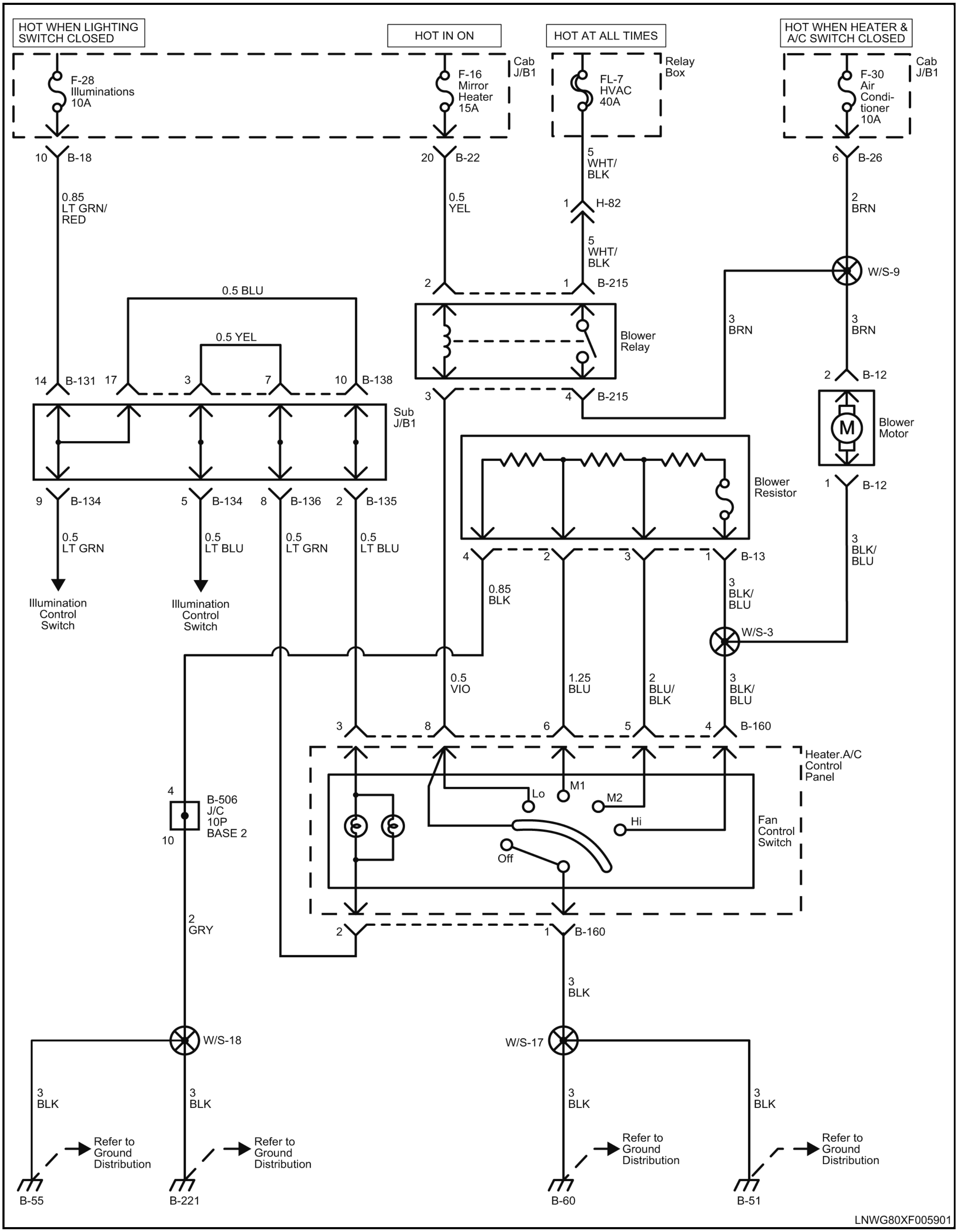
Description and Operation

HVAC Circuit Description

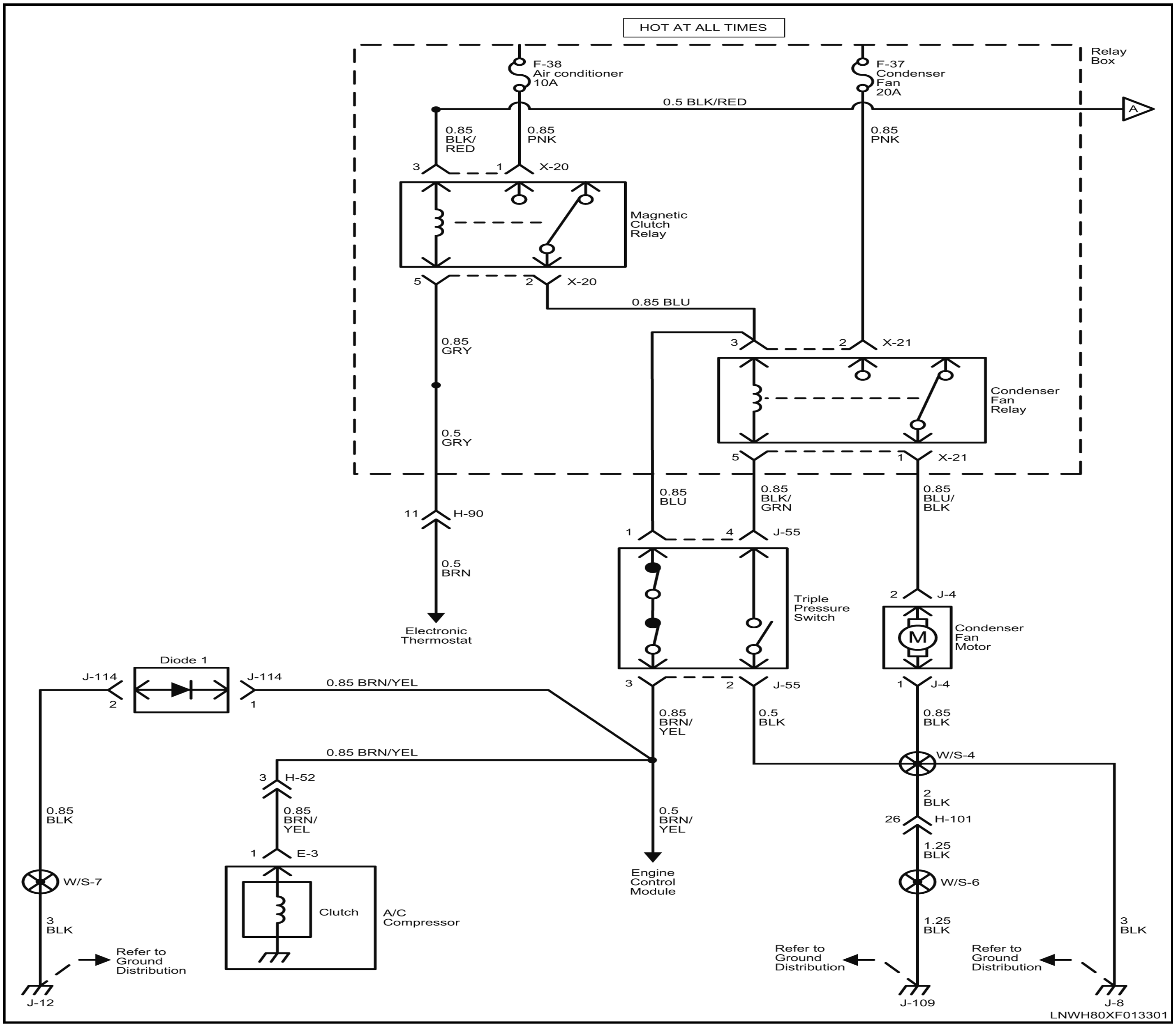
The air conditioning circuit consists of compressor, A/C switch, fan switch, etc. When the engine is rotating, the A/C starts to work with both the A/C and fan switches “ON”, followed by the engagement of the magnetic clutch. It stops to work when either the fan switch or the A/C switch turns “OFF”. In addition, the A/C has the function of temporary stop of its operation by function of the pressure switch when sensing abnormal rise of the refrigerant pressure.

Schematic and Routing Diagrams

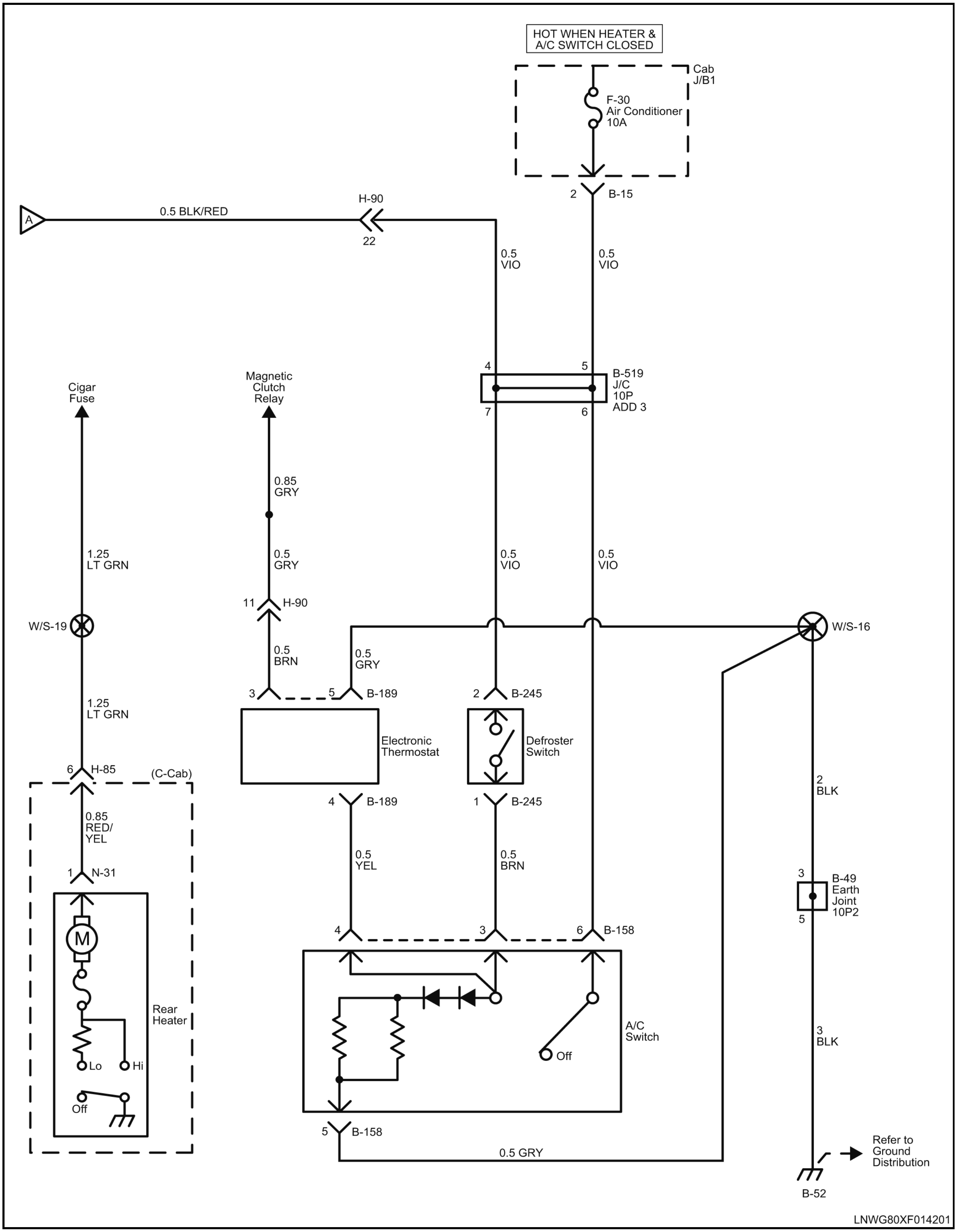
HVAC Schematics


HOT WHEN LIGHTING SWITCH CLOSED
HOT IN ON
HOT AT ALL TIMES
HOT WHEN HEATER & A/C SWITCH CLOSED
F-28 Illuminations 10A
F-16 Mirror Heater 15A
Cab J/B1
FL-7 HVAC 40A
Relay Box
F-30 Air Condi-tioner 10A
Cab J/B1
10 B-18
20 B-22
5 WHT/BLK
6 B-26
0.85 LT GRN/RED
0.5 YEL
1 H-82
2 BRN
5 WHT/BLK
W/S-9
0.5 BLU
2
1 B-215
0.5 YEL
Blower Relay
3 BRN
3 BRN
14 B-131
17
3
7
10 B-138
2 B-12
3
4 B-215
Sub J/B1
Blower Motor
Blower Resistor
1 B-12
9 B-134
5 B-134
8 B-136
2 B-135
0.5 LT GRN
0.5 LT BLU
0.5 LT GRN
0.5 LT BLU
4
2
3
1 B-13
3 BLK/BLU
Illumination Control Switch
Illumination Control Switch
0.85 BLK
3 BLK/BLU
W/S-3
0.5 VIO
1.25 BLU
2 BLU/BLK
3 BLK/BLU
3
8
6
5
4 B-160
Heater.A/C Control Panel
4
B-506 J/C 10P BASE 2
10
Lo
M1
M2
Hi
Off
Fan Control Switch
2 GRY
2
1 B-160
3 BLK
W/S-18
W/S-17
3 BLK
3 BLK
3 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
B-55
B-221
B-60
B-51
LNWG80XF005901

4496918


HOT AT ALL TIMES
Relay Box
F-38 Air conditioner 10A
F-37 Condenser Fan 20A
0.5 BLK/RED
A
0.85 BLK/RED
0.85 PNK
0.85 PNK
3
1
X-20
Magnetic Clutch Relay
5
2
X-20
0.85 BLU
0.85 GRY
3
2
X-21
Condenser Fan Relay
5
1
X-21
0.5 GRY
11
H-90
0.5 BRN
Electronic Thermostat
0.85 BLU
0.85 BLK/GRN
0.85 BLU/BLK
1
4
J-55
Triple Pressure Switch
2
J-4
M
Condenser Fan Motor
Diode 1
J-114
2
J-114
1
0.85 BRN/YEL
3
2
J-55
1
J-4
0.85 BRN/YEL
0.5 BLK
0.85 BLK
W/S-4
0.85 BRN/YEL
3
H-52
0.85 BRN/YEL
2 BLK
26
H-101
1.25 BLK
0.85 BLK
1
E-3
0.5 BRN/YEL
Engine Control Module
W/S-7
W/S-6
Clutch
A/C Compressor
3 BLK
1.25 BLK
3 BLK
Refer to Ground Distribution
Refer to Ground Distribution
Refer to Ground Distribution
J-12
J-109
J-8
LNWH80XF013301

4710549


HOT WHEN HEATER & A/C SWITCH CLOSED
Cab J/B1
F-30 Air Conditioner 10A
2 B-15
A
0.5 BLK/RED
H-90
22
0.5 VIO
0.5 VIO
4
5
B-519 J/C 10P ADD 3
7
6
Cigar Fuse
Magnetic Clutch Relay
0.85 GRY
0.5 GRY
1.25 LT GRN
0.5 VIO
0.5 VIO
11 H-90
W/S-19
W/S-16
0.5 BRN
0.5 GRY
1.25 LT GRN
3
5 B-189
2 B-245
Electronic Thermostat
Defroster Switch
6 H-85
(C-Cab)
4 B-189
1 B-245
0.85 RED/ YEL
2 BLK
0.5 YEL
0.5 BRN
1 N-31
M
3
B-49 Earth Joint 10P2
5
Rear Heater
4
3
6 B-158
A/C Switch
Lo
Hi
Off
Off
3 BLK
5 B-158
0.5 GRY
Refer to Ground Distribution
B-52
LNWG80XF014201

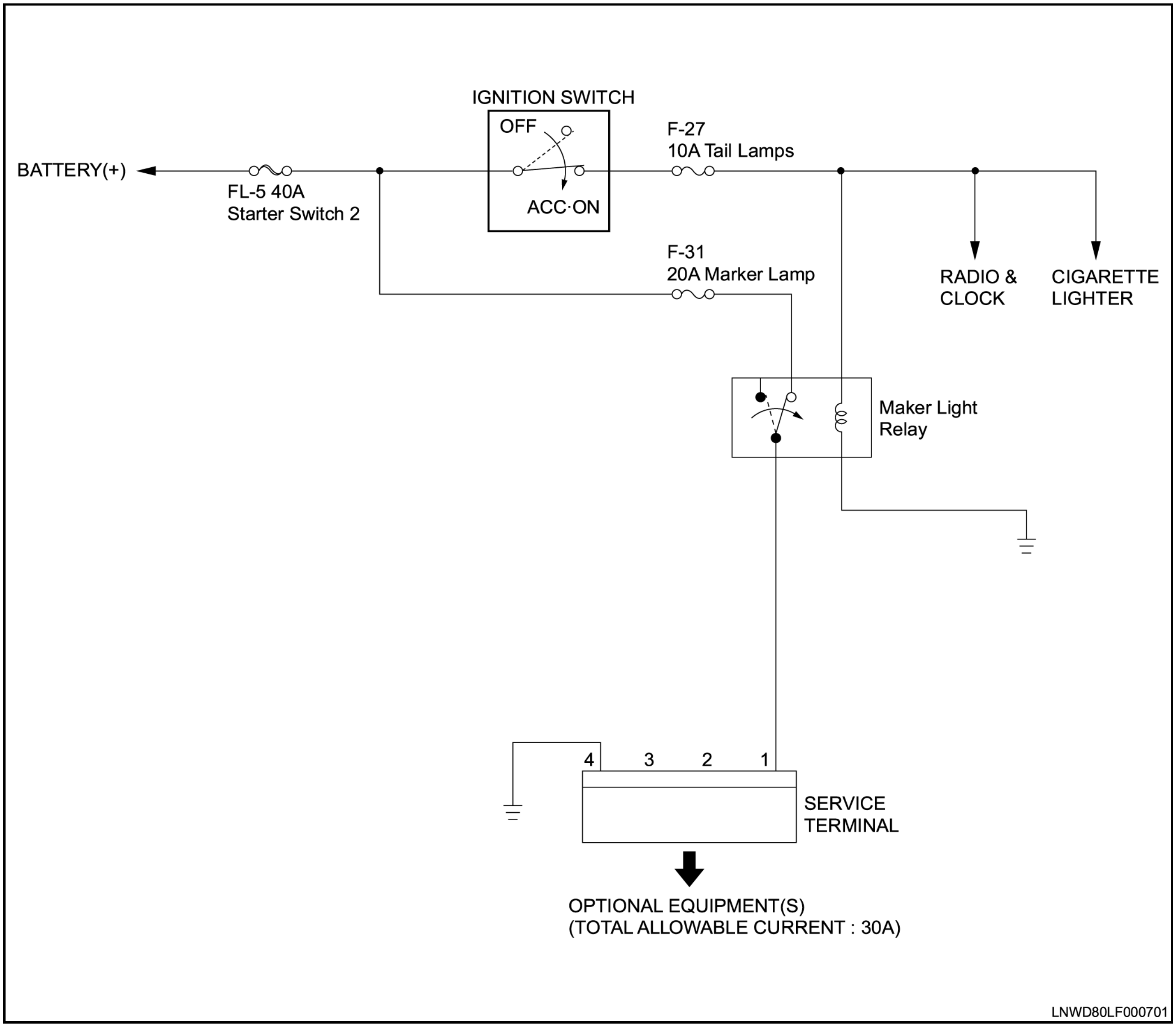
4506837

Description and Operation

Service Terminal Circuit Description

The circuit consists of the maker light relay, and the connector for the service terminal.

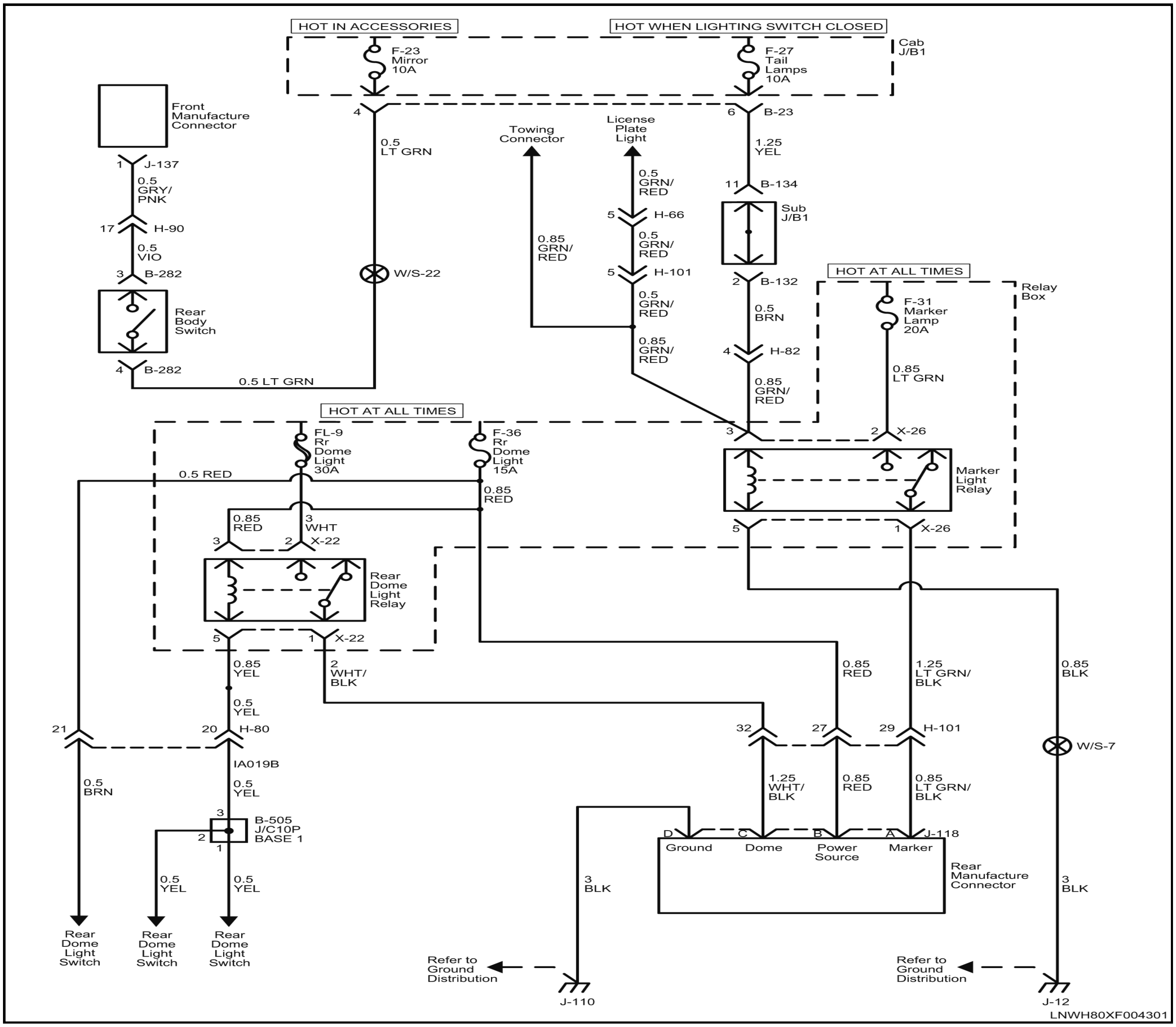
The service terminal connector is provided for Installation of optional equipment (S). This circuit incorporates a 20A fuse. Make sure that the total current of all installed parts does not exceed 20A.


IGNITION SWITCH
OFF
ACC·ON
BATTERY(+)
FL-5 40A
Starter Switch 2
F-27
10A Tail Lamps
F-31
20A Marker Lamp
RADIO &
CLOCK
CIGARETTE
LIGHTER
Maker Light
Relay
4
3
2
1
SERVICE
TERMINAL
OPTIONAL EQUIPMENT(S)
(TOTAL ALLOWABLE CURRENT : 30A)
LNWD80LF000701

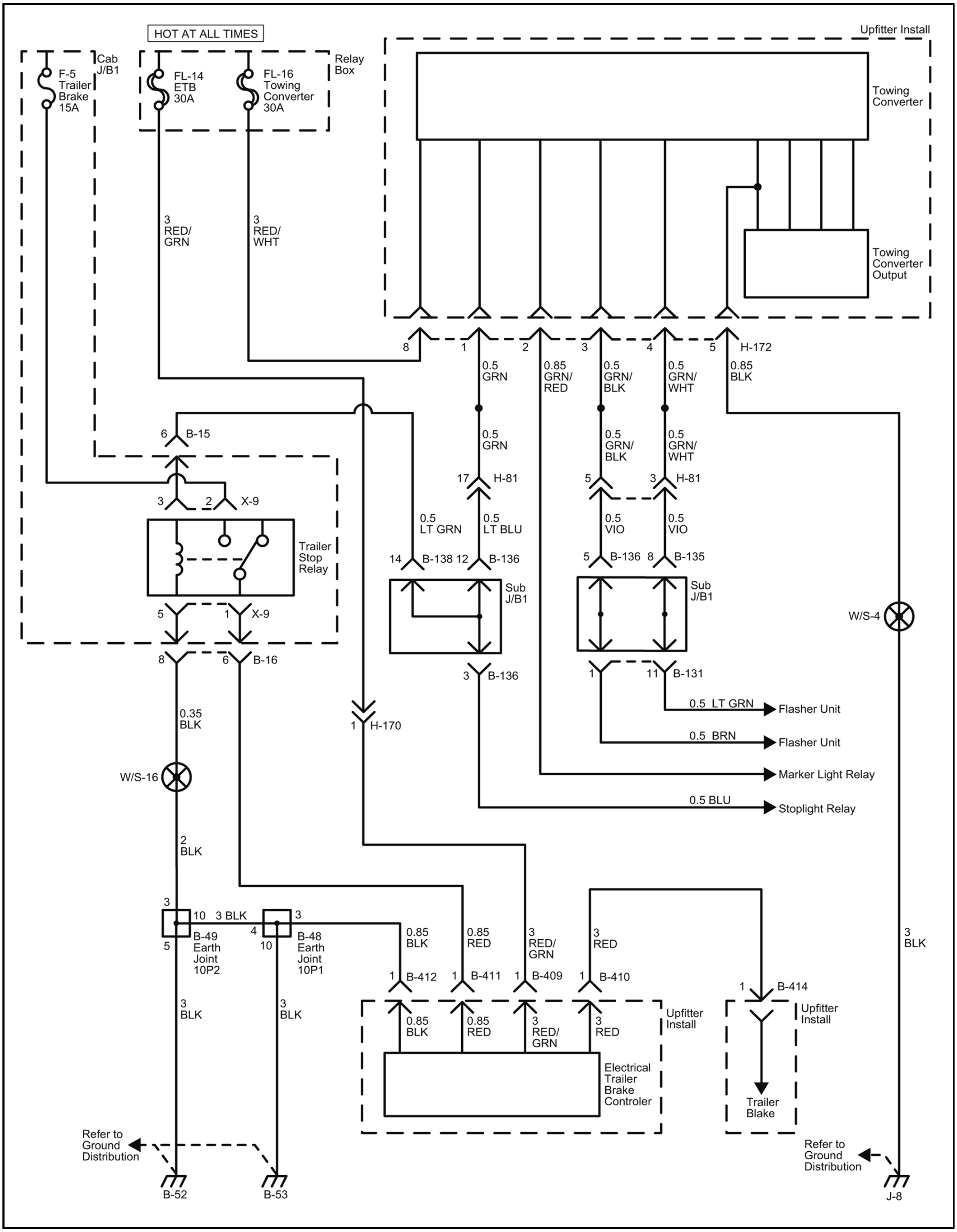
4496932

Schematic and Routing Diagrams

Service Terminal Schematics


HOT IN ACCESSORIES
HOT WHEN LIGHTING SWITCH CLOSED
F-23 Mirror 10A
F-27 Tail Lamps 10A
Cab J/B1
Front Manufacture Connector
1 J-137
0.5 GRY/ PNK
17 H-90
0.5 VIO
3 B-282
Rear Body Switch
4 B-282
0.5 LT GRN
4
0.5 LT GRN
W/S-22
Towing Connector
0.85 GRN/ RED
License Plate Light
0.5 GRN/ RED
5 H-66
0.5 GRN/ RED
5 H-101
0.5 GRN/ RED
0.85 GRN/ RED
6 B-23
1.25 YEL
11 B-134
Sub J/B1
2 B-132
0.5 BRN
4 H-82
0.85 GRN/ RED
HOT AT ALL TIMES
Relay Box
F-31 Marker Lamp 20A
0.85 LT GRN
3
2 X-26
Marker Light Relay
5
1 X-26
HOT AT ALL TIMES
FL-9 Rr Dome Light 30A
F-36 Rr Dome Light 15A
0.5 RED
0.85 RED
0.85 RED
3 WHT
3
2 X-22
Rear Dome Light Relay
5
1 X-22
0.85 YEL
2 WHT/ BLK
0.5 YEL
21
20 H-80
IA019B
0.5 BRN
0.5 YEL
3
B-505 J/C10P BASE 1
2
1
0.5 YEL
0.5 YEL
Rear Dome Light Switch
Rear Dome Light Switch
Rear Dome Light Switch
0.85 RED
1.25 LT GRN/ BLK
0.85 BLK
32
27
29 H-101
W/S-7
1.25 WHT/ BLK
0.85 RED
0.85 LT GRN/ BLK
D
C
B
A J-118
Ground
Dome
Power Source
Marker
Rear Manufacture Connector
3 BLK
3 BLK
Refer to Ground Distribution
J-110
Refer to Ground Distribution
J-12
LNWH80XF004301

4710567


HOT AT ALL TIMES
Cab J/B1
F-5 Trailer Brake 15A
Relay Box
FL-14 ETB 30A
FL-16 Towing Converter 30A
Upfitter Install
Towing Converter
Towing Converter Output
3 RED/ GRN
3 RED/ WHT
8
1
2
3
4
5
H-172
0.5 GRN
0.85 GRN/ RED
0.5 GRN/ BLK
0.5 GRN/ WHT
0.85 BLK
6 B-15
0.5 GRN
0.5 GRN/ BLK
0.5 GRN/ WHT
17 H-81
5
3 H-81
3
2 X-9
0.5 LT GRN
0.5 LT BLU
0.5 VIO
0.5 VIO
Trailer Stop Relay
14 B-138 12 B-136
5 B-136 8 B-135
Sub J/B1
Sub J/B1
W/S-4
5
1 X-9
8
6 B-16
3 B-136
1
11 B-131
0.5 LT GRN
Flasher Unit
0.5 BRN
Flasher Unit
Marker Light Relay
0.5 BLU
Stoplight Relay
0.35 BLK
1 H-170
W/S-16
2 BLK
3
10 3 BLK
3
5
B-49 Earth Joint 10P2
4
10
B-48 Earth Joint 10P1
0.85 BLK
0.85 RED
3 RED/ GRN
3 RED
3 BLK
1 B-412
1 B-411
1 B-409
1 B-410
1 B-414
3 BLK
3 BLK
0.85 BLK
0.85 RED
3 RED/ GRN
3 RED
Upfitter Install
Upfitter Install
Electrical Trailer Brake Controler
Trailer Blake
Refer to Ground Distribution
Refer to Ground Distribution
B-52
B-53
J-8

4496941

Description and Operation

Power Windows

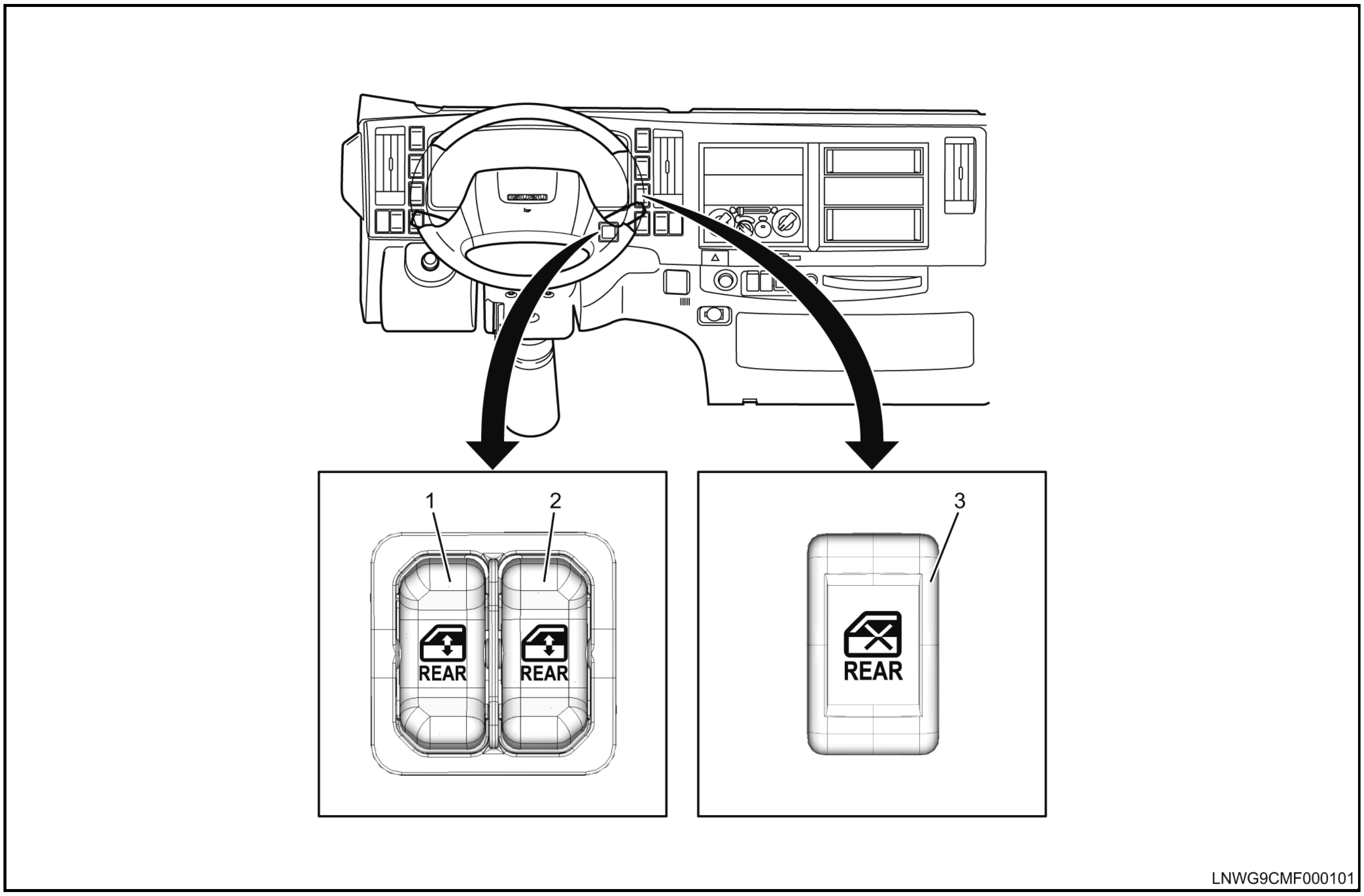
The circuit consist of the ignition switch, power window switch for each of the windows and power window motor.

When the ignition switch is turned on, the battery voltage is applied to each of the power window switches through the circuit breaker and the power window relay on the circuit.

By operating the switches of each window to select “UP” or “DOWN”, the revolving direction of the power window motor changes to open or close the window.

The driver’s power window switch has a built-in one-touch operating circuit which allows to automatically open the window by operating the switch to the AUTO position.

Power Window Switch Location



4506841

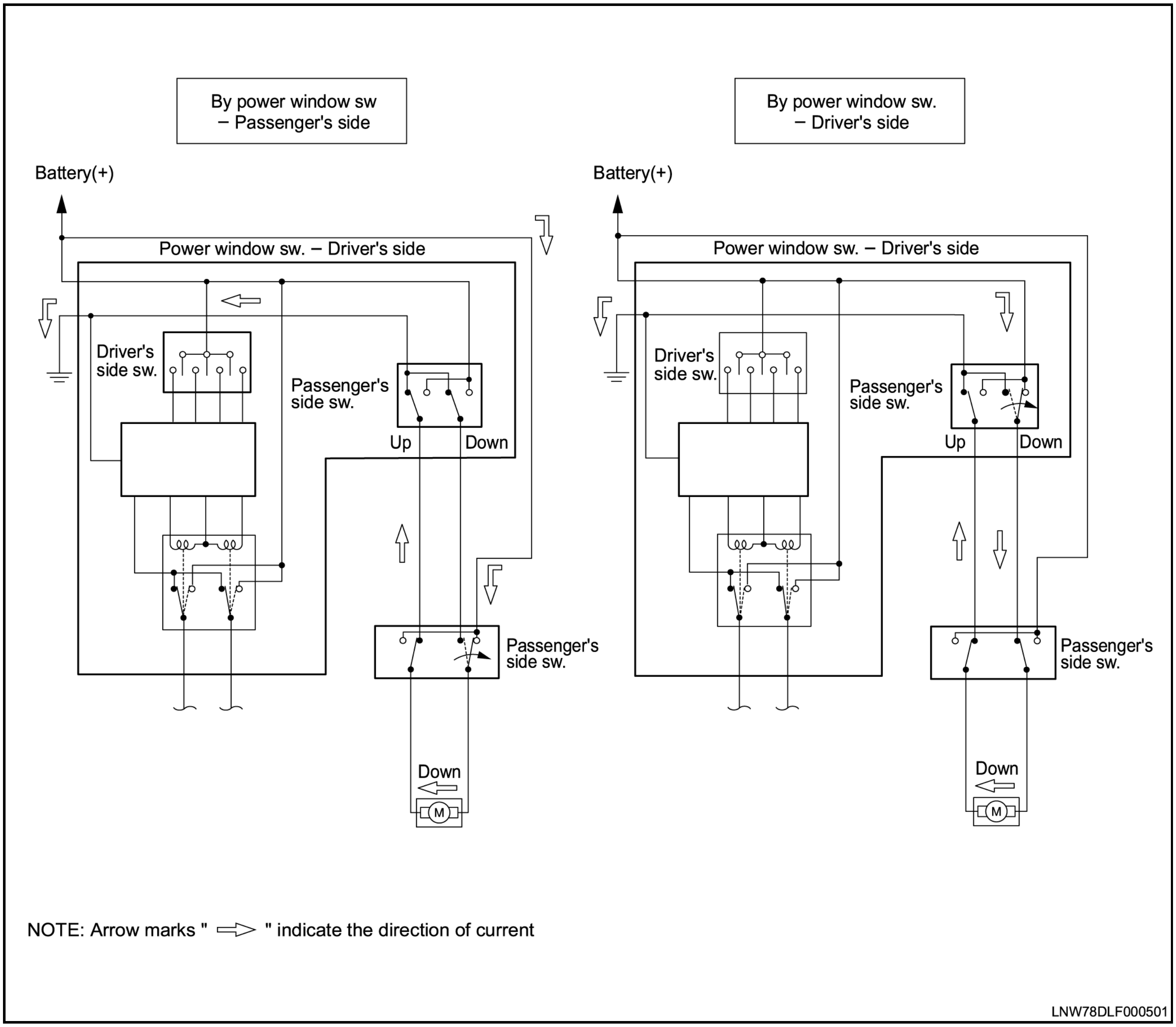
Legend

(1) Rear Power Window Switch LH

(2) Rear Power Window Switch RH

(3) Rear Window Lock Switch

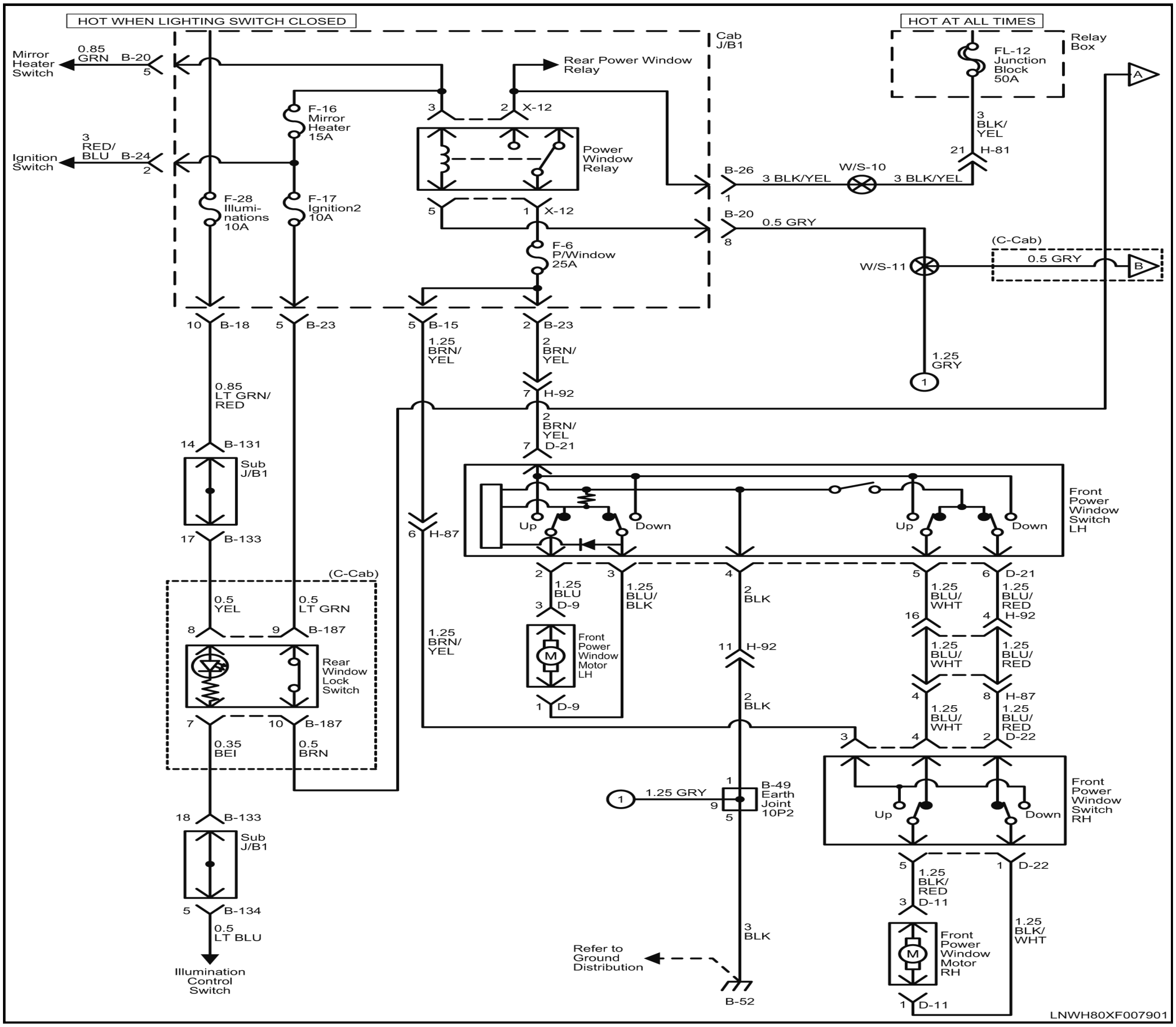
Operation of Passenger Side Window


By power window sw
– Passenger's side
By power window sw.
– Driver's side
Battery(+)
Power window sw. – Driver's side
Driver's side sw.
Passenger's side sw.
Up
Down
Passenger's side sw.
Down
M
NOTE: Arrow marks " ⇨ " indicate the direction of current
LNW78DLF000501

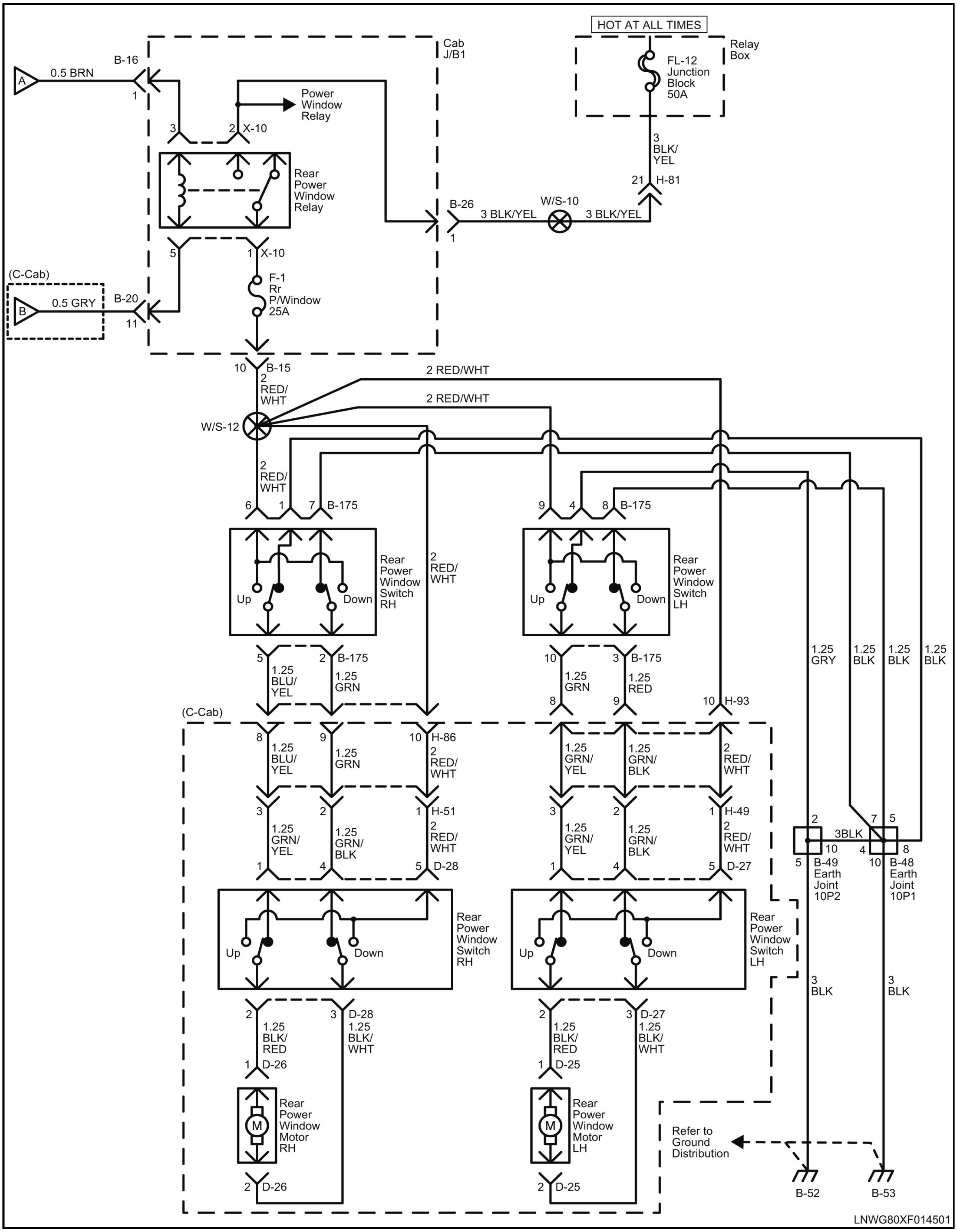
4496952

Schematic and Routing Diagrams

Power Window Schematics


HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
Relay Box
FL-12 Junction Block 50A
Mirror Heater Switch
0.85 GRN
B-20
5
Ignition Switch
3 RED/BLU
B-24
2
F-16 Mirror Heater 15A
F-28 Illumi-nations 10A
F-17 Ignition2 10A
Rear Power Window Relay
3
2
X-12
Power Window Relay
5
1
X-12
F-6 P/Window 25A
B-26
1
3 BLK/YEL
W/S-10
3 BLK/YEL
3 BLK/YEL
21
H-81
A
B-20
8
0.5 GRY
(C-Cab)
0.5 GRY
B
W/S-11
1.25 GRY
1
10 B-18
5 B-23
5 B-15
2 B-23
1.25 BRN/YEL
2 BRN/YEL
7 H-92
2 BRN/YEL
7 D-21
0.85 LT GRN/RED
14 B-131
Sub J/B1
17 B-133
Front Power Window Switch LH
Up
Down
Up
Down
6 H-87
(C-Cab)
0.5 YEL
0.5 LT GRN
8
9 B-187
Rear Window Lock Switch
7
10 B-187
0.35 BEI
0.5 BRN
2
3
4
5
6 D-21
1.25 BLU
3 D-9
1.25 BLU/BLK
Front Power Window Motor LH
M
1 D-9
2 BLK
11 H-92
2 BLK
1.25 BLU/WHT
1.25 BLU/RED
16
4 H-92
1.25 BLU/WHT
1.25 BLU/RED
4
8 H-87
1.25 BLU/WHT
1.25 BLU/RED
3
4
2 D-22
1.25 BRN/YEL
Front Power Window Switch RH
Up
Down
1
1.25 GRY
9
B-49 Earth Joint 10P2
5
18 B-133
Sub J/B1
5 B-134
0.5 LT BLU
Illumination Control Switch
5
1 D-22
1.25 BLK/RED
3 D-11
Front Power Window Motor RH
M
1 D-11
1.25 BLK/WHT
3 BLK
Refer to Ground Distribution
B-52
LNWH80XF007901

4710644


HOT AT ALL TIMES
Relay Box
FL-12 Junction Block 50A
3 BLK/ YEL
21 H-81
Cab J/B1
A
0.5 BRN
B-16
1
3
2 X-10
Power Window Relay
Rear Power Window Relay
B-26
1
3 BLK/YEL
W/S-10
3 BLK/YEL
5
1 X-10
(C-Cab)
B
0.5 GRY
B-20
11
F-1 Rr P/Window 25A
10 B-15
2 RED/ WHT
W/S-12
2 RED/WHT
2 RED/WHT
2 RED/ WHT
6 1 7 B-175
9 4 8 B-175
Rear Power Window Switch RH
Up
Down
2 RED/ WHT
Rear Power Window Switch LH
Up
Down
5 2 B-175
1.25 BLU/ YEL
1.25 GRN
10 3 B-175
1.25 GRN
1.25 RED
8 9 10 H-93
1.25 GRY
1.25 BLK
1.25 BLK
1.25 BLK
(C-Cab)
8 9 10 H-86
1.25 BLU/ YEL
1.25 GRN
2 RED/ WHT
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
3 2 1 H-51
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
3 2 1 H-49
1.25 GRN/ YEL
1.25 GRN/ BLK
2 RED/ WHT
1 4 5 D-28
1 4 5 D-27
2
7 5
3BLK
10
4
8
5 B-49 Earth Joint 10P2
10 B-48 Earth Joint 10P1
Rear Power Window Switch RH
Up
Down
Rear Power Window Switch LH
Up
Down
3 BLK
3 BLK
2 3 D-28
1.25 BLK/ RED
1.25 BLK/ WHT
2 3 D-27
1.25 BLK/ RED
1.25 BLK/ WHT
1 D-26
1 D-25
M
Rear Power Window Motor RH
M
Rear Power Window Motor LH
2 D-26
2 D-25
Refer to Ground Distribution
B-52
B-53
LNWG80XF014501

4506844

Description and Operation

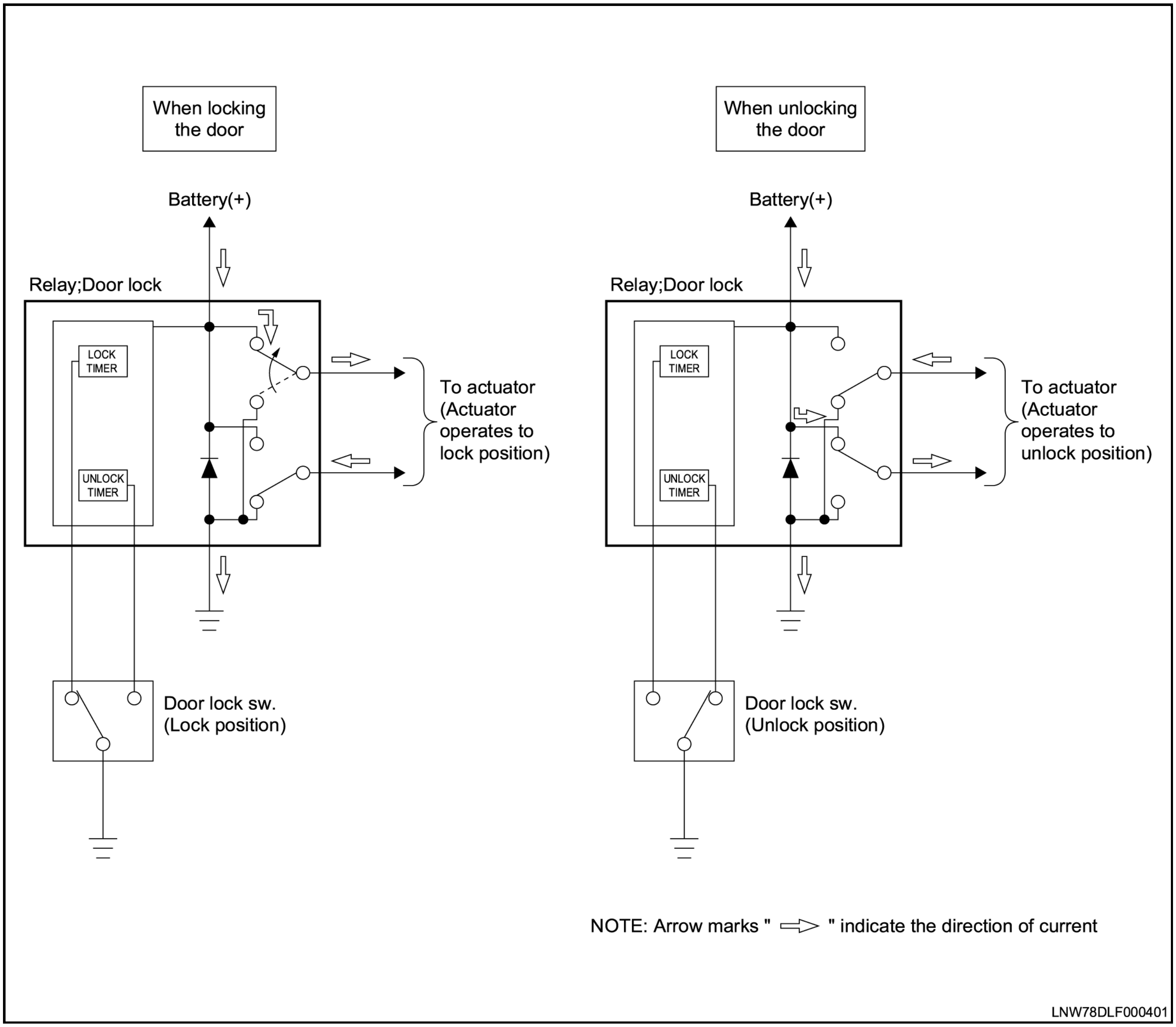
Power Door Locks Circuit Description

The circuit consists of the door lock switch, actuator for the front passenger side door, and the door lock controller.

The door lock relay is always provided with battery voltage. The key or the inside lock knob on the drivers side door can activate the lock mechanism of all the doors.

When the drivers side door lock switch is turned on, current flows for about one second to the door lock actuator of each door connected in parallel with the relay to activates the actuator to lock and unlock the doors.

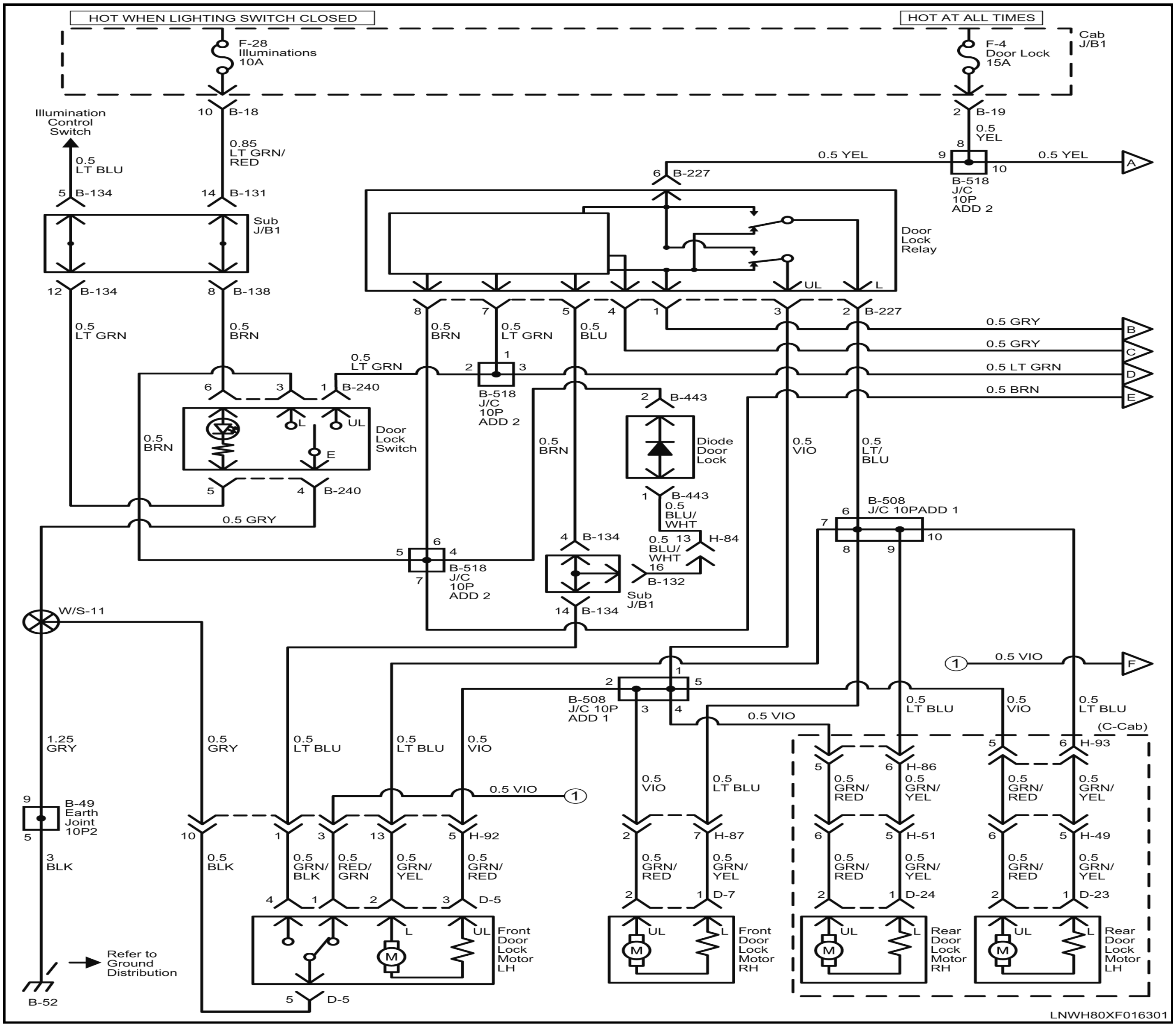
OPERATION OF DOOR LOCK CONTROLLER


When locking the door
Battery(+)
Relay;Door lock
LOCK TIMER
UNLOCK TIMER
To actuator (Actuator operates to lock position)
Door lock sw. (Lock position)
When unlocking the door
Battery(+)
Relay;Door lock
LOCK TIMER
UNLOCK TIMER
To actuator (Actuator operates to unlock position)
Door lock sw. (Unlock position)
NOTE: Arrow marks " ⇨ " indicate the direction of current
LNW78DLF000401

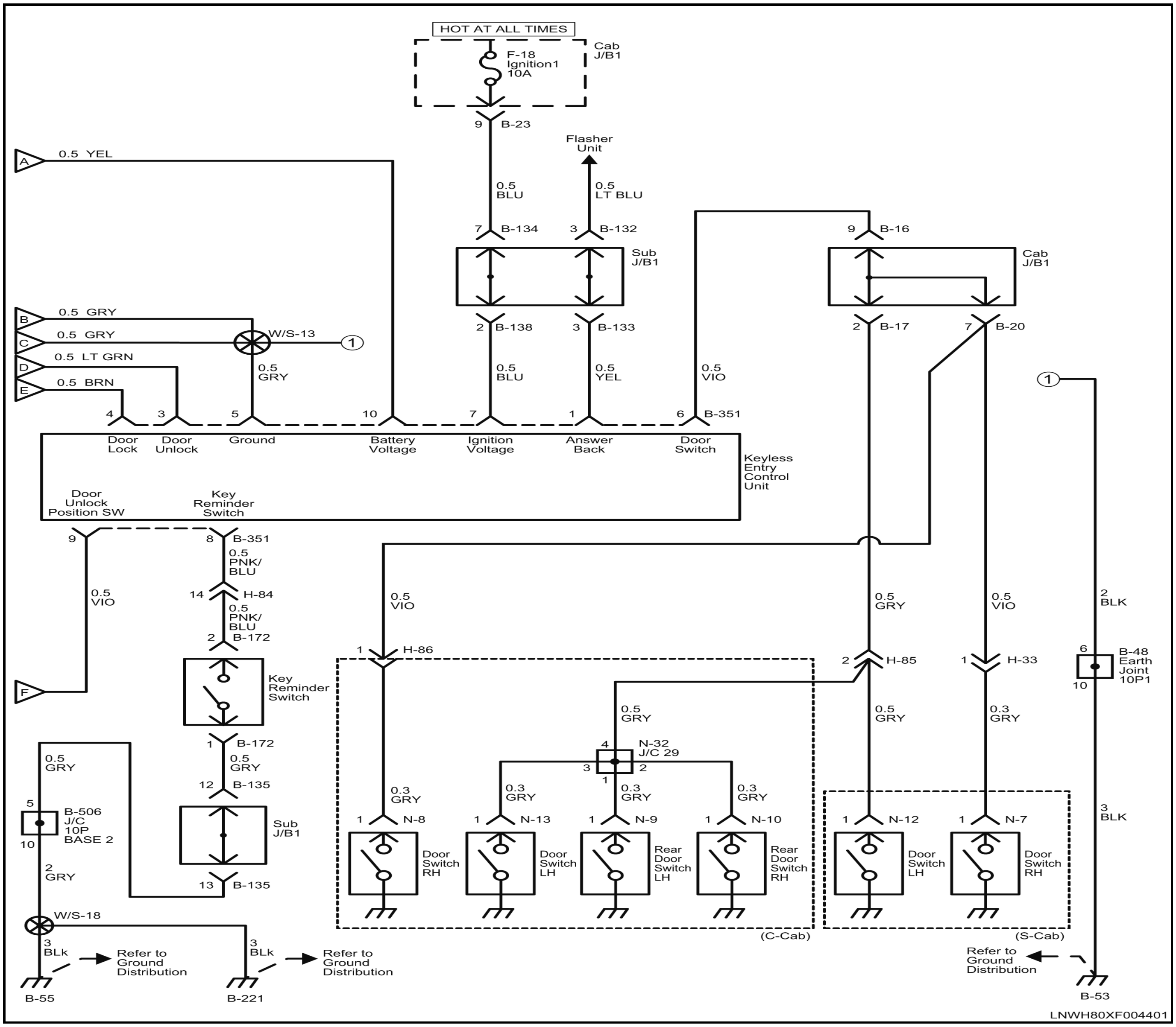
4496990

Schematic and Routing Diagrams

Power Door Lock Schematics


HOT WHEN LIGHTING SWITCH CLOSED
HOT AT ALL TIMES
Cab J/B1
F-28 Illuminations 10A
F-4 Door Lock 15A
10 B-18
2 B-19
Illumination Control Switch
0.85 LT GRN/ RED
0.5 YEL
0.5 LT BLU
5 B-134
14 B-131
0.5 YEL
9
8
10
B-518 J/C 10P ADD 2
A
6 B-227
Sub J/B1
Door Lock Relay
UL
L
12 B-134
8 B-138
8 7 5 4 1 3 2 B-227
0.5 LT GRN
0.5 BRN
0.5 BRN
0.5 LT GRN
0.5 BLU
0.5 GRY
B
0.5 GRY
C
0.5 LT GRN
D
0.5 BRN
E
0.5 LT GRN
1
2 3
6 3 1 B-240
B-518 J/C 10P ADD 2
2 B-443
L
UL
E
Door Lock Switch
0.5 BRN
0.5 BRN
Diode Door Lock
0.5 VIO
0.5 LT/ BLU
5 4 B-240
1 B-443
0.5 BLU/ WHT
B-508 J/C 10PADD 1
6
7
8 9 10
0.5 GRY
4 B-134
0.5 13 BLU/ WHT 16
H-84
5 6 4
7
B-518 J/C 10P ADD 2
B-132
Sub J/B1
14 B-134
W/S-11
1
0.5 VIO
F
2 1 5
B-508 J/C 10P ADD 1
3 4
0.5 VIO
0.5 LT BLU
0.5 VIO
0.5 LT BLU
(C-Cab)
1.25 GRY
0.5 GRY
0.5 LT BLU
0.5 LT BLU
0.5 VIO
0.5 VIO
0.5 LT BLU
5 6 H-93
5 6 H-86
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 VIO
1
9
B-49 Earth Joint 10P2
5
10 1 3 13 5 H-92
2 7 H-87
6 5 H-51
6 5 H-49
3 BLK
0.5 BLK
0.5 GRN/ BLK
0.5 RED/ GRN
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
0.5 GRN/ RED
0.5 GRN/ YEL
4 1 2 3 D-5
2 1 D-7
2 1 D-24
2 1 D-23
L
UL
Front Door Lock Motor LH
UL
L
Front Door Lock Motor RH
UL
L
Rear Door Lock Motor RH
UL
L
Rear Door Lock Motor LH
M
Refer to Ground Distribution
B-52
5 D-5
LNWH80XF016301

4710687


HOT AT ALL TIMES
Cab J/B1
F-18 Ignition1 10A
9 B-23
Flasher Unit
A 0.5 YEL
0.5 BLU
0.5 LT BLU
7 B-134
3 B-132
Sub J/B1
9 B-16
Cab J/B1
B 0.5 GRY
C 0.5 GRY
W/S-13
1
D 0.5 LT GRN
E 0.5 BRN
2 B-138
3 B-133
2 B-17
7 B-20
0.5 GRY
0.5 BLU
0.5 YEL
0.5 VIO
4 3 5 10 7 1 6 B-351
Door Lock
Door Unlock
Ground
Battery Voltage
Ignition Voltage
Answer Back
Door Switch
Keyless Entry Control Unit
Door Unlock Position SW
Key Reminder Switch
9
8 B-351
0.5 PNK/ BLU
14 H-84
0.5 PNK/ BLU
2 B-172
0.5 VIO
0.5 VIO
0.5 GRY
0.5 VIO
2 BLK
F
Key Reminder Switch
1 H-86
2 H-85
1 H-33
6 B-48 Earth Joint 10P1
10
0.5 GRY
0.5 GRY
0.3 GRY
1 B-172
0.5 GRY
4 N-32 J/C 29
3 2 1
12 B-135
0.5 GRY
5 B-506 J/C 10P BASE 2
10
Sub J/B1
0.3 GRY
0.3 GRY
0.3 GRY
0.3 GRY
3 BLK
1 N-8
1 N-13
1 N-9
1 N-10
1 N-12
1 N-7
Door Switch RH
Door Switch LH
Rear Door Switch LH
Rear Door Switch RH
Door Switch LH
Door Switch RH
2 GRY
13 B-135
W/S-18
(C-Cab)
(S-Cab)
3 BLk
Refer to Ground Distribution
3 BLk
Refer to Ground Distribution
Refer to Ground Distribution
B-55
B-221
B-53
LNWH80XF004401

4710700

Description and Operation

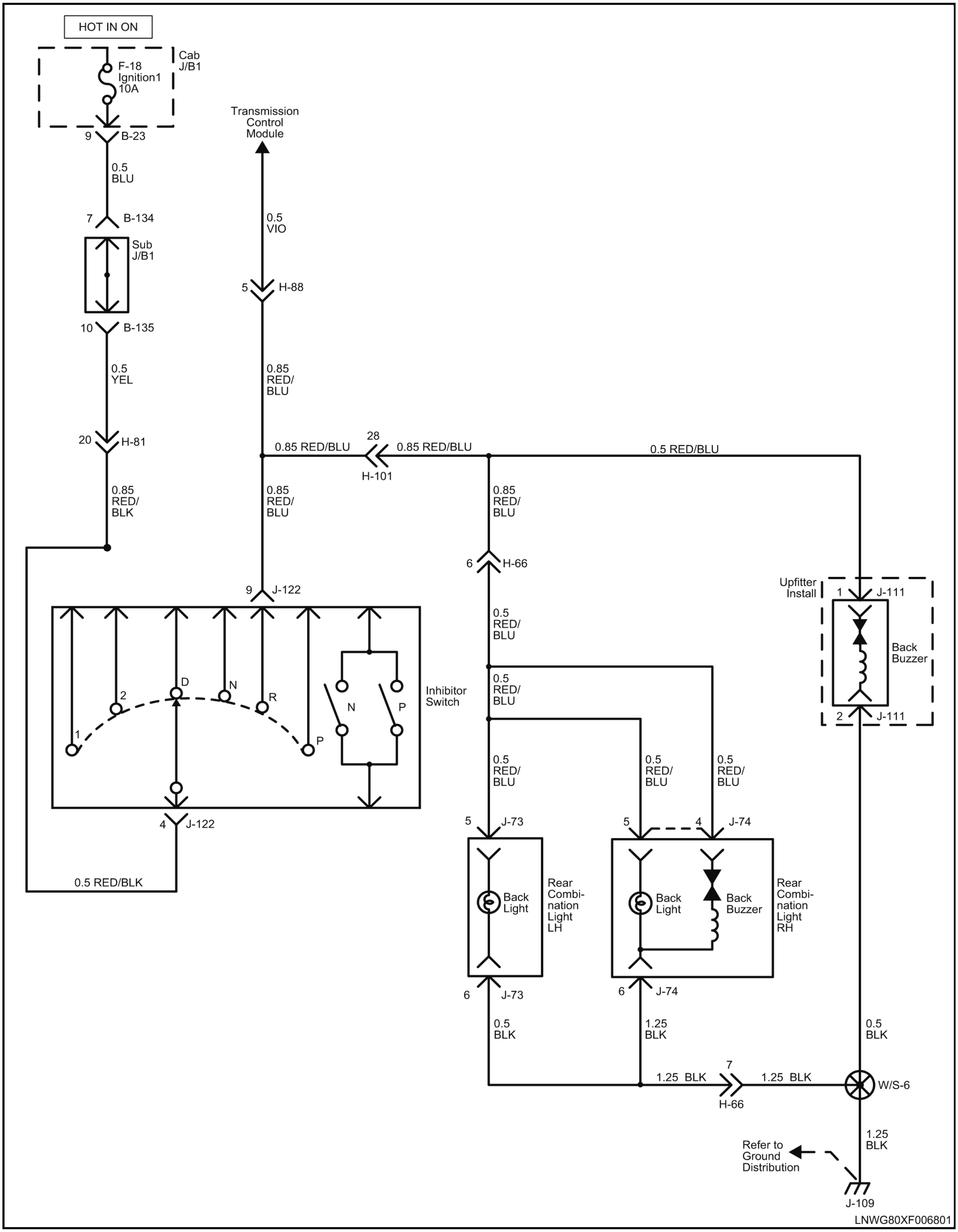
Backup Alarm System Circuit Description

The circuit consists of the backup light switch (or the inhibitor switch) and back buzzer.

When the reverse position is selected, the backup light switch (or the inhibitor switch) is turned ON and the back buzzer sound.

Schematic and Routing Diagrams

Backup Alarm System Schematics


HOT IN ON
Cab J/B1
F-18 Ignition1 10A
9 B-23
0.5 BLU
7 B-134
Sub J/B1
10 B-135
0.5 YEL
20 H-81
0.85 RED/BLK
Transmission Control Module
0.5 VIO
5 H-88
0.85 RED/BLU
28
0.85 RED/BLU
0.85 RED/BLU
H-101
0.5 RED/BLU
0.85 RED/BLU
0.85 RED/BLU
6 H-66
9 J-122
Upfitter Install
1 J-111
Back Buzzer
2 J-111
0.5 RED/BLU
0.5 RED/BLU
Inhibitor Switch
1
2
D
N
R
P
N
P
4 J-122
0.5 RED/BLK
0.5 RED/BLU
0.5 RED/BLU
0.5 RED/BLU
5 J-73
5
4 J-74
Back Light
Rear Combination Light LH
Back Light
Back Buzzer
Rear Combination Light RH
6 J-73
6 J-74
0.5 BLK
1.25 BLK
0.5 BLK
7
1.25 BLK
1.25 BLK
W/S-6
H-66
1.25 BLK
Refer to Ground Distribution
J-109
LNWG80XF006801

4497020

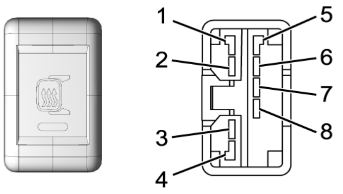
Repair Instructions

Heated Outside Rearview Mirror Switch Replacement

Inspection Procedure

Check the continuity between the mirror heater switch connector terminals.

Repair or replace the switch when the result of inspection is found abnormal.



Terminal No. / Switch Position	1	2	3	4	5	6	7	8
ON	○——○		○——○		○—⊗—w—○		○—⊗—w—○	
OFF								

LNW780SH009601

4497032

Removal Procedure

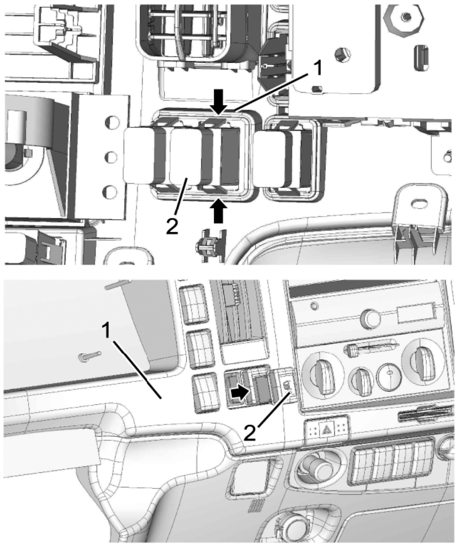
Warning: Before servicing any electrical component, the ignition key must be in the LOCK position and all electrical loads must be OFF, unless instructed otherwise in these procedures. If a tool or equipment could easily come in contact with a live exposed electrical terminal, also disconnect the battery ground cable. But do not disconnect within 3 minute after turning OFF the ignition switch. Failure to follow these precautions may cause personal injury and/or damage to the vehicle or its components.

1. Disconnect the battery ground cable.

   Note:

   - Do not disconnect within 3 minute after turning OFF the ignition switch.
   - The ECM may malfunction if the battery cable is disconnected within 3 minutes.
2. Remove the instrument panel (IP) cluster bezel.

   Refer to *Instrument Cluster Circuit Description on page 2-346*.
3. Remove the mirror heater switch
   - 3.1. Release the lock pushing the switch fro, the back side of the instrument panel (IP) cluster bezel.



4497034

Legend

(1)	Instrument Panel (IP) Cluster Bezel
(2)	Mirror Heater Switch

Installation Procedure

To install, follow the removal steps in the reverse order noting the following point:

- Push the switch with your fingers until locks securely.

Description and Operation

Controller Area Network (CAN) Circuit Description

The circuit consists of the engine control module (ECM), the transmission control module (TCM), the glow plug control module (GPCM), and the instrument panel (IP) cluster. These ECU always communicate each other through the CAN circuit.

The ECM and the TCM have another CAN circuit for communicate with a scan tool. The circuit consists of the ECM, the TCM and the data link connector (DLC).

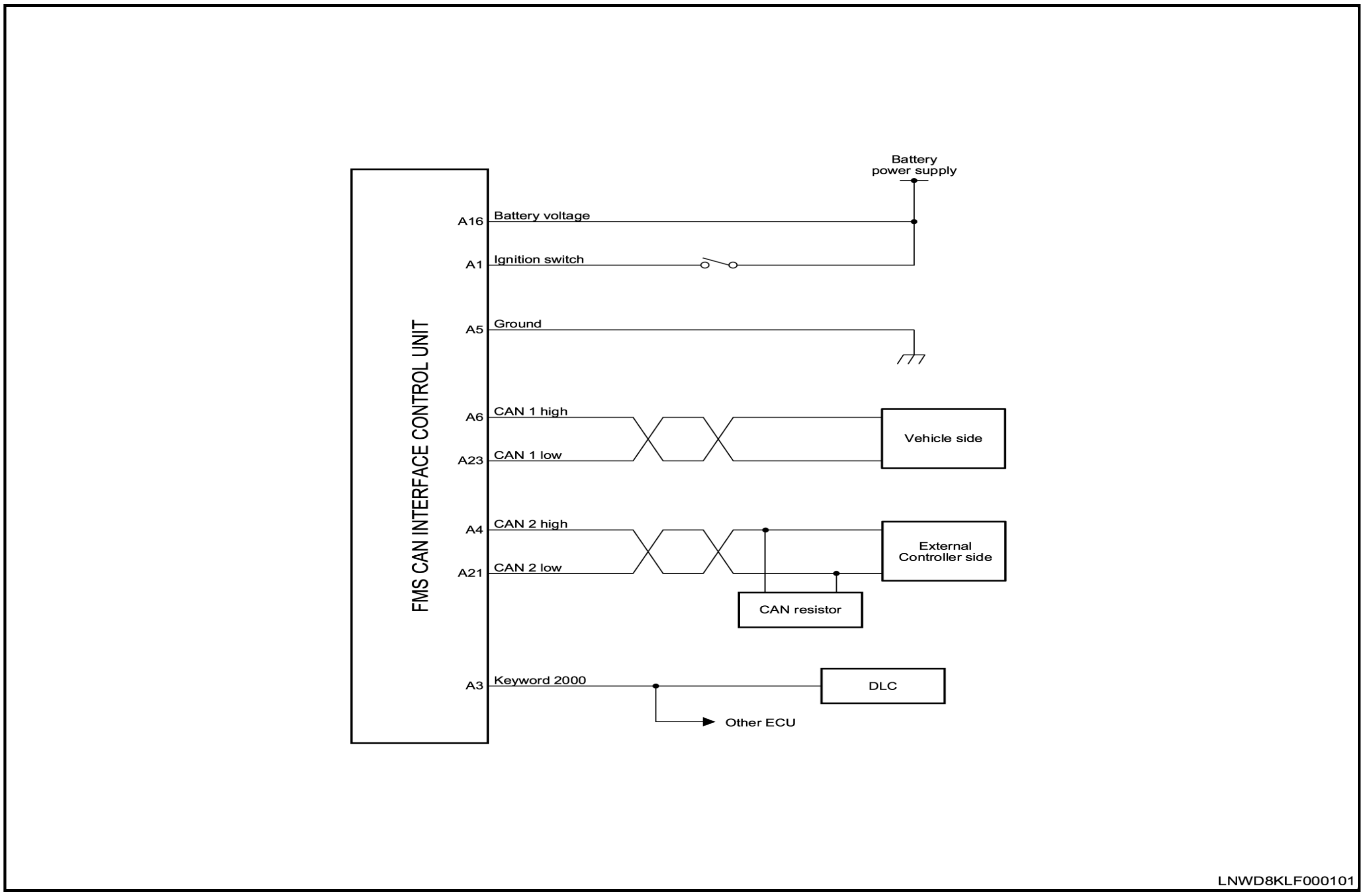
Data Link Connector Circuit Description

The Data Link Connector (DLC) is the connector for communications and connections with external diagnostic devices (scan tools) and controllers. The Diagnostic Trouble Code (DTC) stored in the ECM, TCM, Mimamori, DEF and EHCU memory can be read either through a hand-held diagnostic scanner such as external diagnostic devices plugged into the DLC or by counting the number of flashes of the light when the diagnostic test terminal of the DLC is grounded.

Vehicle Control (FMS CAN Interface)

Schematic and Routing Diagrams

FMS CAN Interface Schematics

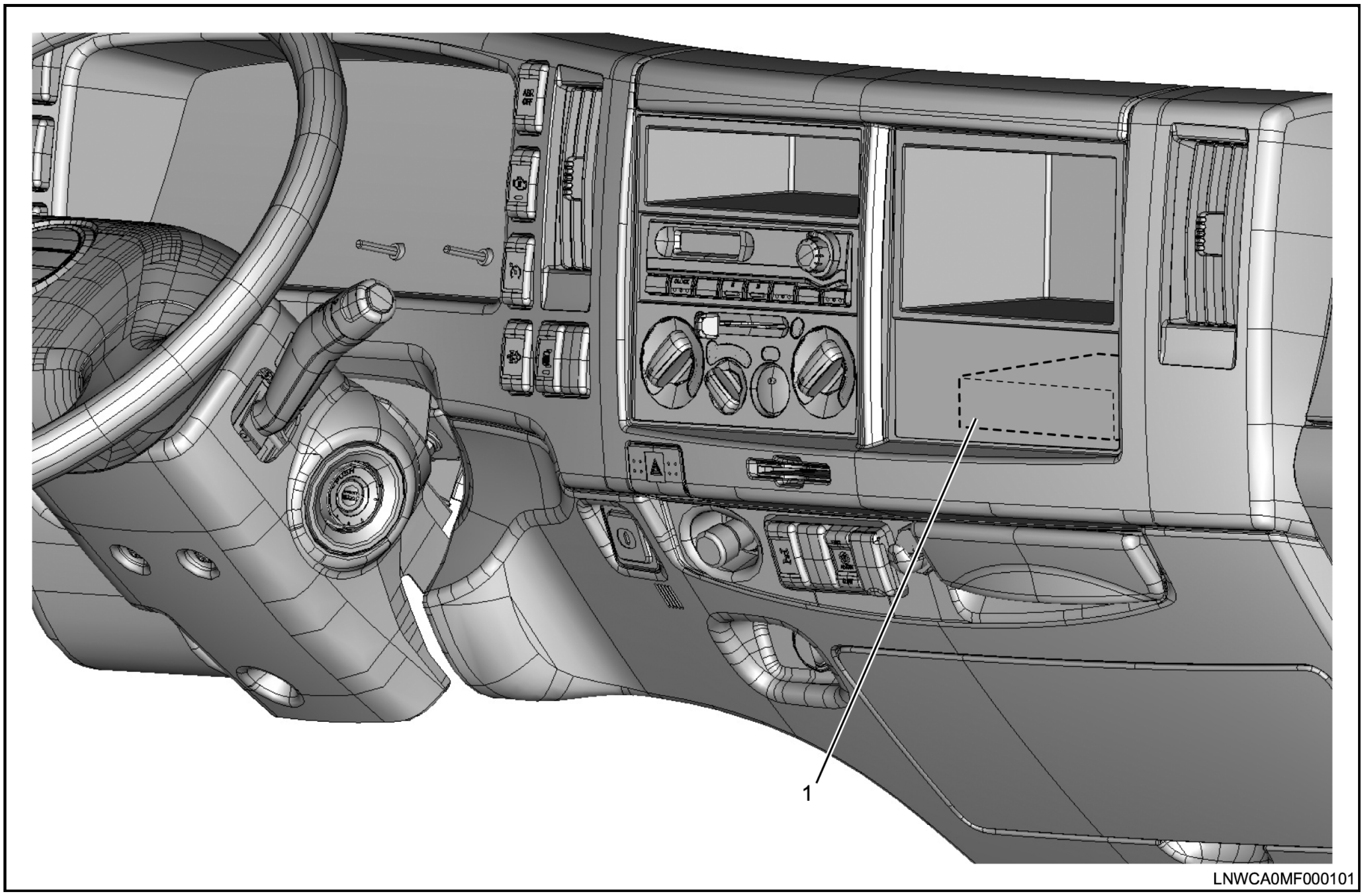


Battery power supply
FMS CAN INTERFACE CONTROL UNIT
A16
Battery voltage
A1
Ignition switch
A5
Ground
A6
CAN 1 high
A23
CAN 1 low
Vehicle side
A4
CAN 2 high
A21
CAN 2 low
External Controller side
CAN resistor
A3
Keyword 2000
DLC
Other ECU
LNWD8KLF000101

4499044

Component Locator

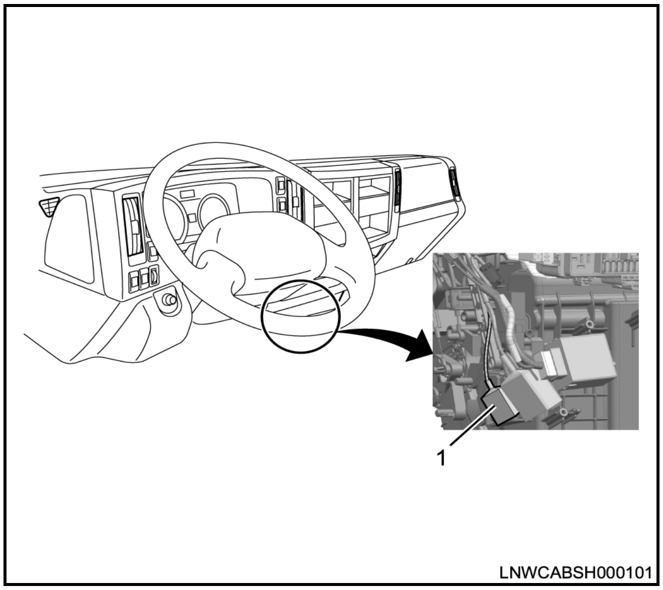
Component Location



4499045

Legend

(1) FMS CAN Interface Control Unit


1
LNWCABSH000101

4499046

Legend

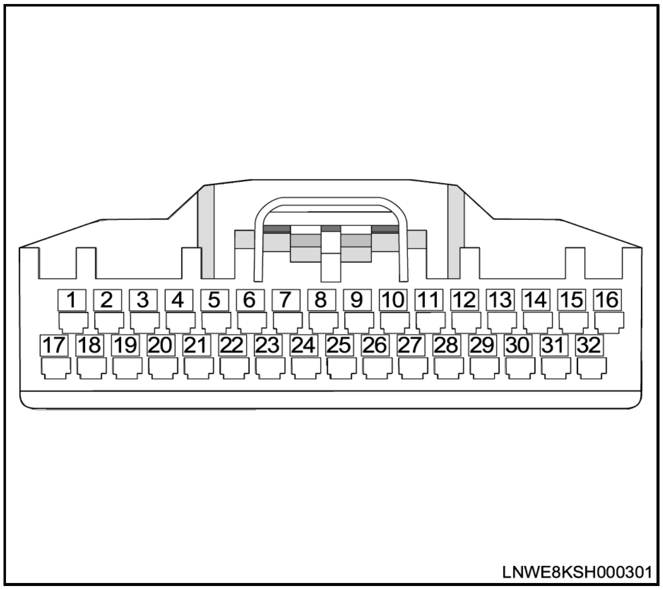
(1) FMS CAN Interface External Connector

Visual Identification

Connector End Views

FMS CAN Interface Control Unit Connector End Views

FMS CAN Interface Control Unit (32 Pins Connector)

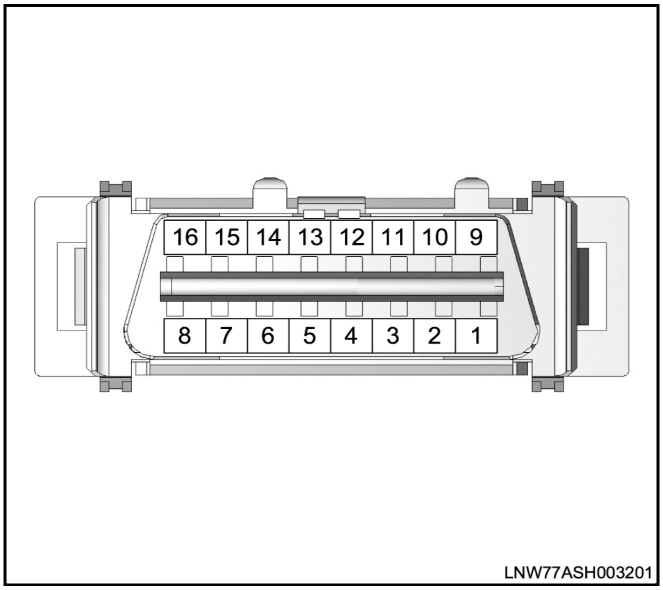

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
LNWE8KSH000301

4499047

Connector No.		B451
Connector Color		Gray
Test Adapter No.		J-35616-64B
Pin No.	Wire Color	Pin Function
1	GRN/ YEL	Ignition Voltage
2	—	Not Used
3	LT BLU	Keyword 2000 Serial Data (ISO 14230)
4	BRN/ WHT	CAN 2 High Signal (J-1939)
5	BLK	Ground
6	BLU/ WHT	CAN 1 High Signal (J-1939)
7	—	Not Used
8	—	Not Used
9	—	Not Used
10	—	Not Used
11	—	Not Used
12	—	Not Used
13	—	Not Used
14	—	Not Used
15	—	Not Used
16	RED	Battery Voltage
17	—	Not Used
18	—	Not Used
19	—	Not Used
20	—	Not Used
21	BRN	CAN 2 Low Signal (J-1939)
22	—	Not Used
23	BLU	CAN 1 Low Signal (J-1939)
24	—	Not Used
25	—	Not Used
26	—	Not Used
27	—	Not Used
28	—	Not Used
29	—	Not Used
30	—	Not Used
31	—	Not Used
32	—	Not Used

FMS CAN Interface Controls Connector End Views

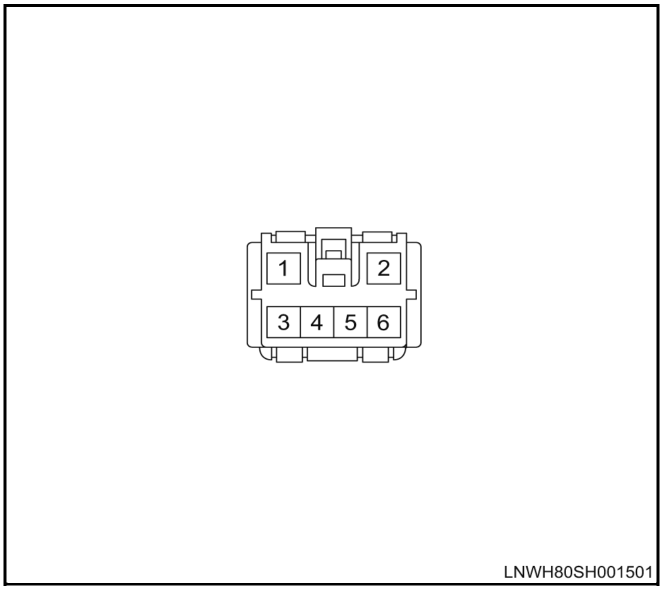
Data Link Connector (DLC)



4499051

Connector No.		B-31
Connector Color		Gray
Test Adapter No.		J-35616-2A
Pin No.	Wire Color	Pin Function
1	—	Not Used
2	—	Not Used
3	—	Not Used
4	GRY	Ground
5	GRY	Ground
6	GRN/ WHT	CAN High Signal (GM LAN) (ECM, TCM, DEF Control Module, MIMAMORI ECU)
7	BRN	Keyword 2000 Serial Data (ISO14230) (EHCU [ABS Module], MIMAMORI ECU, FMS CAN Interface Control Unit)
8	—	Not Used
9	—	Not Used
10	—	Not Used
11	—	Not Used
12	LT GRN	Diagnostic Request Switch (TCM, EHCU [ABS Module])
13	—	Not Used
14	GRN	CAN Low Signal (GM LAN) (ECM, TCM, DEF Control Module, MIMAMORI ECU)
15	—	Not Used
16	BLU	Battery Voltage

FMS CAN Interface External Connector



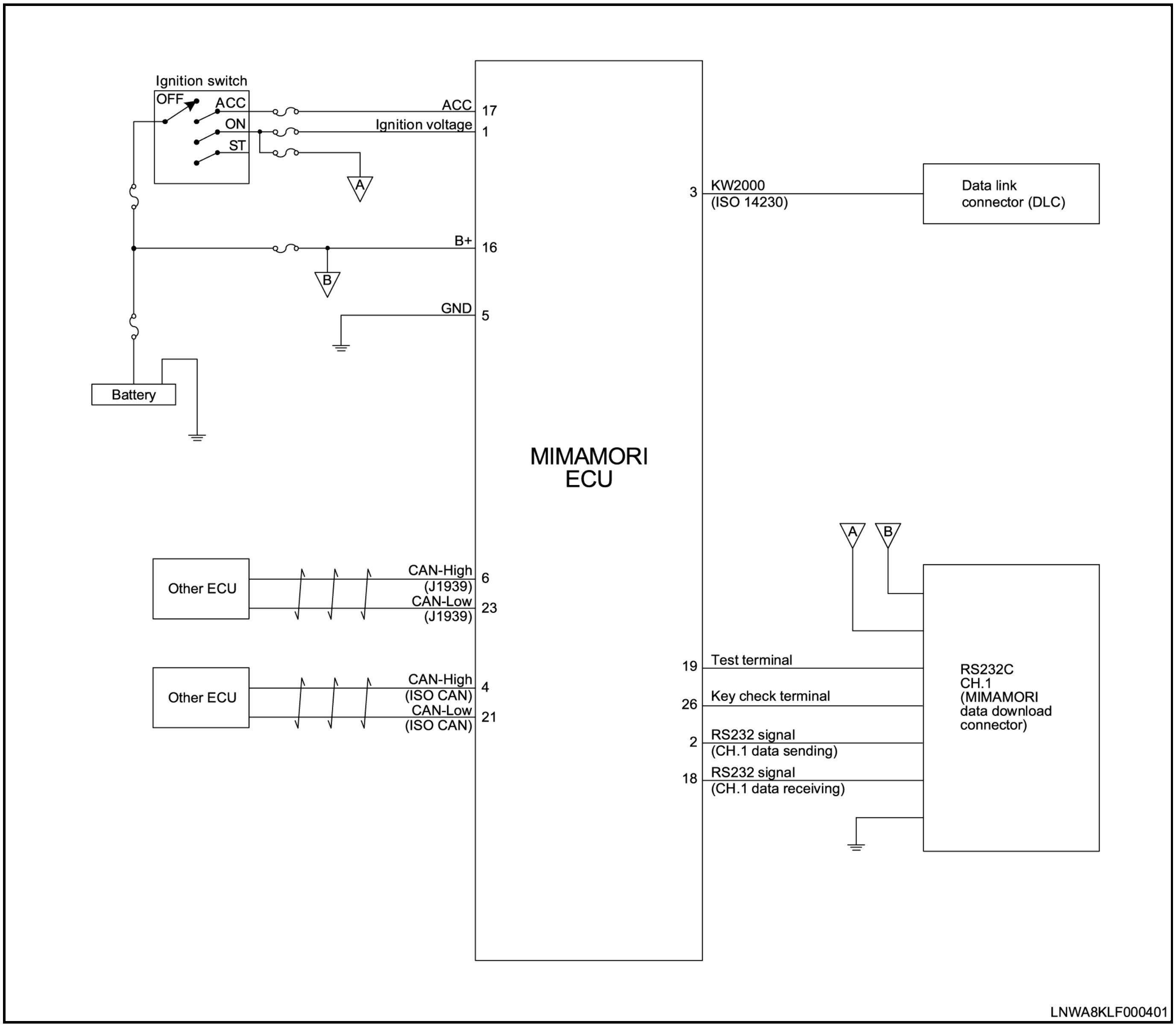
4646896

Connector No.		H234
Connector Color		White
Test Adapter No.		J-35616-5
Pin No.	Wire Color	Pin Function
1	RED	Battery Voltage
2	GRY/YEL	Ignition Voltage
3	—	Not Used
4	BLK	Ground
5	BRN	CAN 2 Low Signal
6	BRN/WHT	CAN 2 High Signal

Vehicle Control (MIMAMORI)

Schematic and Routing Diagrams

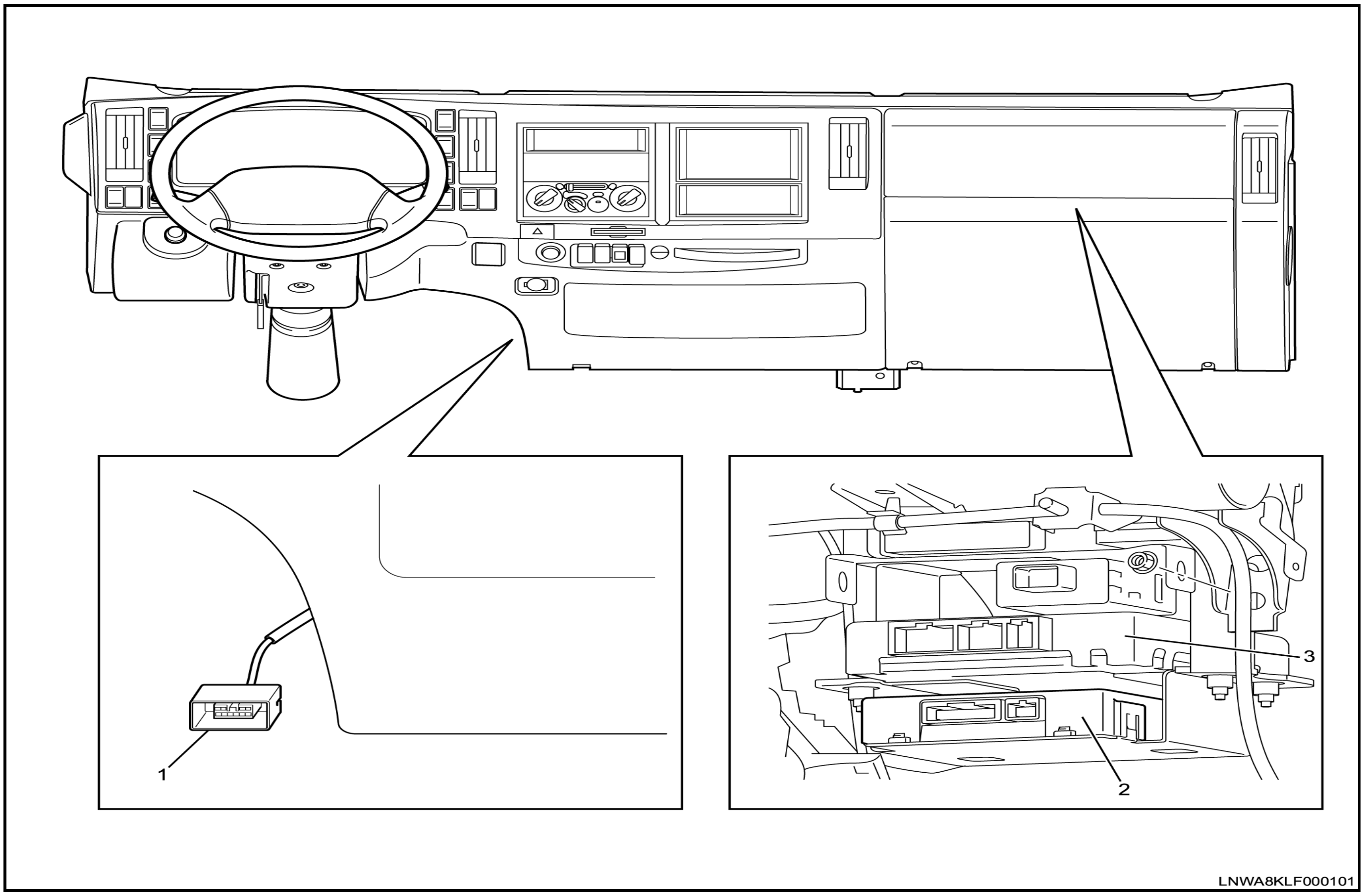
MIMAMORI Schematics


Ignition switch
OFF
ACC
ON
ST
ACC
17
Ignition voltage
1
A
B+
16
B
GND
5
Battery
MIMAMORI ECU
3
KW2000
(ISO 14230)
Data link connector (DLC)
A
B
Other ECU
CAN-High (J1939)
6
CAN-Low (J1939)
23
Other ECU
CAN-High (ISO CAN)
4
CAN-Low (ISO CAN)
21
19
Test terminal
26
Key check terminal
2
RS232 signal (CH.1 data sending)
18
RS232 signal (CH.1 data receiving)
RS232C CH.1 (MIMAMORI data download connector)
LNWA8KLF000401

4499239

Component Locator

Component Location



4499240

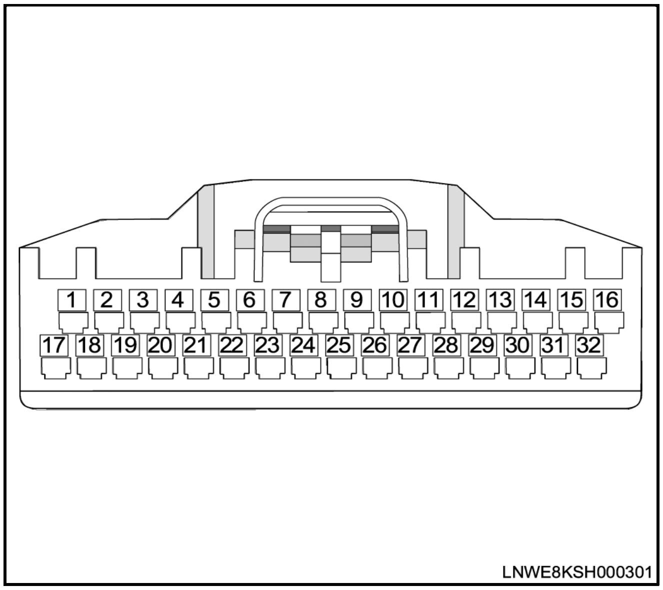
Legend

(1)	MIMAMORI Data Download Connector	(3)	Transmission Control Module (TCM)
(2)	MIMAMORI ECU		

Visual Identification

Connector End Views

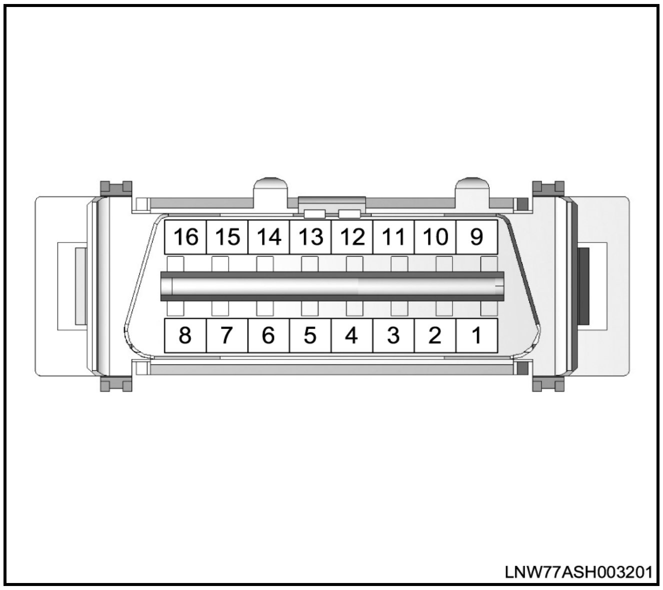
MIMAMORI ECU (32 Pins Connector)



4499047

Connector No.		B402
Connector Color		Gray
Test Adapter No.		J-35616-18
Pin No.	**Wire Color**	**Pin Function**
1	VIO	Ignition voltage
2	RED/YEL	RS232 signal for data download (CH1 data sending)
3	PNK	Keyword 2000 serial data (ISO 14230)
4	GRN/WHT	CAN high signal (ISO CAN)
5	GRY	Ground
6	BLU/WHT	CAN high signal (J-1939)
7	—	Not used
8	—	Not used
9	—	Not used
10	—	Not used
11	—	Not used
12	—	Not used
13	—	Not used
14	—	Not used
15	—	Not used
16	LT BLU	Battery voltage
17	LT GRN	Accessory voltage
18	RED/GRN	RS232 signal for data download (CH1 data receiving)
19	RED/WHT	Test terminal
20	—	Not used
21	GRN	CAN low signal (ISO CAN)
22	—	Not used
23	BLU	CAN low signal (J-1939)
24	—	Not used
25	—	Not used
26	RED	Key check terminal for data download
27	—	Not used
28	—	Not used
29	—	Not used
30	—	Not used
31	—	Not used
32	—	Not used

Data Link Connector (DLC)

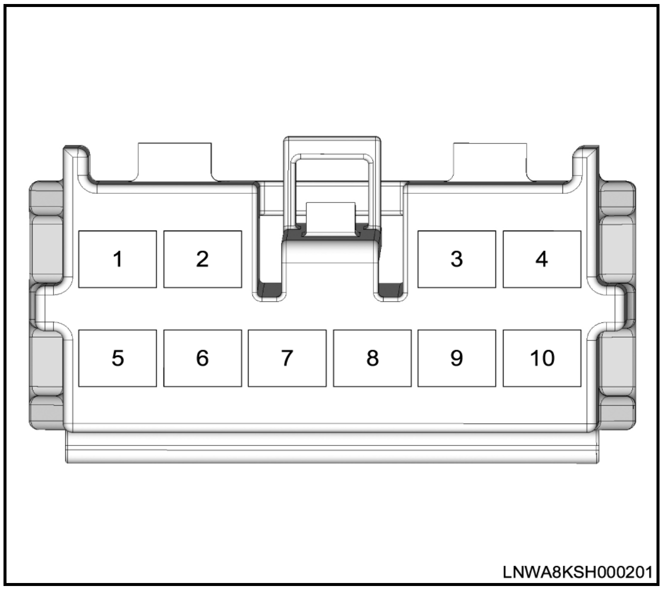


4499051

Connector No.		B31
Connector Color		Gray
Test Adapter No.		J-35616-12
Pin No.	**Wire Color**	**Pin Function**
1	—	Not used
2	—	Not used
3	—	Not used
4	GRY	Ground
5	GRY	Ground
6	GRN/ WHT	CAN high signal (GM LAN) (ECM, TCM, DEF control module, MIMAMORI ECU)

Connector No.		B31
Connector Color		Gray
Test Adapter No.		J-35616-12
Pin No.	**Wire Color**	**Pin Function**
7	BRN	Keyword 2000 serial data (ISO 14230) (EHCU [ABS module], MIMAMORI ECU, FMS CAN interface control unit)
8	—	Not used
9	—	Not used
10	—	Not used
11	—	Not used
12	LT GRN	Diagnostic request switch (TCM, EHCU [ABS module])
13	—	Not used
14	GRN	CAN low signal (GM LAN) (ECM, TCM, DEF control module, MIMAMORI ECU)
15	—	Not used
16	BLU	Battery voltage

MIMAMORI Data Download Connector



4499241

Connector No.		B120
Connector Color		Green
Test Adapter No.		J-35616-4A
Pin No.	**Wire Color**	**Pin Function**
1	RED	Key check terminal for data download
2	—	Not used
3	RED/ YEL	RS232 signal for data download (CH1 data sending)
4	RED/ WHT	Test terminal
5	RED/ GRN	RS232 signal for data download (CH1 data receiving)
6	BLK/ BLU	Battery voltage
7	—	Not used
8	RED/ BLK	Ignition voltage
9	—	Not used
10	BLK	Ground

BLANK

E

Engine Identification 1-7

M

Model Identification 1-3

R

RPO Code List 1-5

V

VIN Derivative 1-3

BLANK